

NCP-AIN Latest Exam Online & Exam NCP-AIN Pass4sure

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">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"> 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	<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.

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NVIDIA-Certified Professional AI Networking Sample Questions (Q16-Q21):

NEW QUESTION # 16

You suspect there might be connectivity issues in your InfiniBand fabric and need to perform a comprehensive check. Which tool should you use to run a full fabric diagnostic and generate a report?

- A. ibnetdiscover
- B. perfquery
- C. ibdiagnet**
- D. taping

Answer: C

Explanation:

The ibdiagnet utility is a fundamental tool for InfiniBand fabric discovery, error detection, and diagnostics. It provides comprehensive reports on the fabric's health, including error reporting, switch and Host Channel Adapter (HCA) configuration dumps, various counters reported by the switches and HCAs, and parameters of devices such as switch fans, power supply units, cables, and PCI lanes. Additionally, ibdiagnet performs validation for Unicast Routing, Adaptive Routing, and Multicast Routing to ensure correctness and a credit- loop-free routing environment.

Reference Extracts from NVIDIA Documentation:

* "The ibdiagnet utility is one of the basic tools for InfiniBand fabric discovery, error detection and diagnostic. The output files of the ibdiagnet include error reporting, switch and HCA configuration dumps, various counters reported by the switches and the HCAs."

* "ibdiagnet also performs Unicast Routing, Adaptive Routing and Multicast Routing validation for correctness and credit-loop free routing."

NEW QUESTION # 17

How does Spectrum-X achieve network isolation for multiple tenants?

- A. By implementing physical network segmentation.
- B. By implementing a Layer 3 Virtual Network Identifier (L3VNI) per VRR**
- C. By assigning unique IP address ranges to each tenant.
- D. Using manual configuration of access control lists (ACLs).

Answer: B

Explanation:

Spectrum-X achieves network isolation in multi-tenant environments by implementing Layer 3 Virtual Network Identifiers (L3VNIs) per Virtual Routing and Forwarding (VRF) instance. This approach allows each tenant to have a separate routing table and network segment, ensuring that traffic is isolated and secure between tenants.

Reference Extracts from NVIDIA Documentation:

* "Spectrum-X enhances multi-tenancy with performance isolation to ensure tenants' AI workloads perform optimally and consistently."

NEW QUESTION # 18

What does NetQ leverage (in addition to NVIDIA "What Just Happened" switch telemetry data and NVIDIA DOCA telemetry) to help network operators proactively identify server and application root cause issues?

- A. Packet capture telemetry
- B. Flow telemetry
- C. Application telemetry
- D. **Behavioral telemetry**

Answer: D

Explanation:

NetQ integrates multiple telemetry sources, including WJH, DOCA, and notably, Behavioral Telemetry.

From the NetQ Documentation - Behavioral Telemetry Section:

"Behavioral telemetry in NetQ correlates server and application behavior with network events, offering insights into root cause analysis by detecting anomalies in protocol, path, or performance behavior." This helps identify patterns like:

- * Misbehaving applications causing retransmits.
- * Sudden changes in traffic flows.
- * Latency spikes correlated with app-level issues.

It complements device-level telemetry by introducing intent-based anomaly detection, crucial for proactive operations.

Incorrect Options:

- * Flow telemetry and packet capture offer raw data but not behavioral insights.
- * Application telemetry is too vague and is not the term NetQ uses for this feature.

Reference: NetQ 3.2 Documentation - Behavioral Telemetry

NEW QUESTION # 19

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

Answer: B

Explanation:

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.

Reference Extracts from NVIDIA Documentation:

* "Spectrum-X enhances multi-tenancy with performance isolation to ensure tenants' AI workloads perform optimally and consistently."

* "Spectrum-X utilizes the programmable congestion control function on the BlueField-3 hardware platform to accurately assess the congestion condition of the traffic path by using in-band telemetry information... to achieve the goal of performance isolation to ensure that each tenant gets the best expected performance in the cloud and is not negatively affected by congestion of other tenants."

NEW QUESTION # 20

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

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

Answer: C

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 # 21

Living in such a world where competitiveness is a necessity that can distinguish you from others, every one of us is trying our best to improve ourselves in every way. It has been widely recognized that the NCP-AIN exam can better equip us with a newly gained personal skill, which is crucial to individual self-improvement in today's computer era. With the certified advantage admitted by the test NVIDIA certification, you will have the competitive edge to get a favorable job in the global market. Here our NCP-AIN Study Materials are tailor-designed for you.

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