

NVIDIA NCP-AIO Valid Study Guide - Vce NCP-AIO Exam



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NVIDIA NCP-AIO Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"> • Troubleshooting and Optimization: NVI This section of the exam measures the skills of AI infrastructure engineers and focuses on diagnosing and resolving technical issues that arise in advanced AI systems. Topics include troubleshooting Docker, the Fabric Manager service for NVIDIA NVlink and NVSwitch systems, Base Command Manager, and Magnum IO components. Candidates must also demonstrate the ability to identify and solve storage performance issues, ensuring optimized performance across AI workloads.
Topic 2	<ul style="list-style-type: none"> • Installation and Deployment: This section of the exam measures the skills of system administrators and addresses core practices for installing and deploying infrastructure. Candidates are tested on installing and configuring Base Command Manager, initializing Kubernetes on NVIDIA hosts, and deploying containers from NVIDIA NGC as well as cloud VMI containers. The section also covers understanding storage requirements in AI data centers and deploying DOCA services on DPU Arm processors, ensuring robust setup of AI-driven environments.
Topic 3	<ul style="list-style-type: none"> • Workload Management: This section of the exam measures the skills of AI infrastructure engineers and focuses on managing workloads effectively in AI environments. It evaluates the ability to administer Kubernetes clusters, maintain workload efficiency, and apply system management tools to troubleshoot operational issues. Emphasis is placed on ensuring that workloads run smoothly across different environments in alignment with NVIDIA technologies.
Topic 4	<ul style="list-style-type: none"> • Administration: This section of the exam measures the skills of system administrators and covers essential tasks in managing AI workloads within data centers. Candidates are expected to understand fleet command, Slurm cluster management, and overall data center architecture specific to AI environments. It also includes knowledge of Base Command Manager (BCM), cluster provisioning, Run.ai administration, and configuration of Multi-Instance GPU (MIG) for both AI and high-performance computing applications.

Vce NCP-AIO Exam - Exam NCP-AIO Overviews

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NVIDIA AI Operations Sample Questions (Q49-Q54):

NEW QUESTION # 49

Which of the following are benefits of using NVIDIA Fleet Command (Select all that apply)?

- A. Enhanced security and access control for AI deployments.
- B. Automatic GPU driver updates for non-NVIDIA GPUs.
- C. Simplified AI model deployment and management at the edge.
- D. Automated over-the-air (OTA) updates for AI models and system software.
- E. Centralized monitoring and management of edge devices.

Answer: A,C,D,E

Explanation:

Fleet Command provides simplified deployment (A), centralized monitoring (B), OTA updates (C), and enhanced security (D). It does not provide driver updates for non-NVIDIA GPUs (E).

NEW QUESTION # 50

You have a cluster dedicated to AI inference, serving models from a persistent volume. You're experiencing high latency and CPU usage on the nodes serving inference requests. You suspect that storage access patterns are contributing to the issue. Your persistent volume is backed by a distributed file system. Describe a strategy, including relevant tools and techniques, to analyze the storage I/O profile of your inference workloads and identify potential optimizations.

- A. Implement storage QOS (Quality of Service) policies to prioritize inference workloads and limit the impact of other I/O-intensive processes.
- B. Use 'iotop' or 'iostat' on the compute nodes to monitor real-time I/O activity and identify processes with high disk I/O. Then check the related containers that are doing more of these reads/writes.
- C. Utilize the distributed file system's monitoring tools (if available) to analyze I/O patterns at the file system level. This can reveal hotspots or inefficient data access patterns.
- D. Capture network traffic using 'tcpdump' or Wireshark to analyze the communication patterns between the compute nodes and the storage system. Look for excessive network latency or congestion. Also monitor the network latency using tools like 'ping' or 'iperf'.
- E. Randomly restart the inference pods. If the issue goes away, it means the storage system was temporarily overloaded.

Answer: A,B,C,D

Explanation:

'iotop/iostat' identifies I/O-heavy processes. 'tcpdump'/Wireshark/ping/iperf helps analyze network communication. File system monitoring tools reveal data access patterns. Implementing storage QOS prioritizes inference workloads. Only restart the inference pods if you have a strong reason, otherwise troubleshooting the storage using one of the other methods is best practice.

NEW QUESTION # 51

Consider the following scenario: You have a DOCA application running on a BlueField-2 DPU that performs deep packet inspection (DPI) using the DOCA DPI service. The application needs to identify specific patterns within the network traffic. Which of the following methods can be used to define the patterns for DPI?

- A. Using predefined signature databases provided by NVIDIA.
- B. Using custom C code to define matching logic.

- C. Using regular expressions (RegEx) to define the patterns.
- D. Using eBPF programs to define custom pattern matching logic.
- E. Using YAML files to define the patterns and their associated actions.

Answer: C,E

Explanation:

The doca DPI service patterns can be defined through regular expression and YAML files. Predefined signature database may exist, but that is not the primary method of definition, eBPF and Custom C are not the mechanism supported directly via DPI service.

NEW QUESTION # 52

You have successfully pulled a TensorFlow container from NGC and now need to run it on your stand-alone GPU-enabled server. Which command should you use to ensure that the container has access to all available GPUs?

- A. `docker run nvr.io/nvidia/tensorflow:<tag>`
- B. `docker run --gpus all nvr.io/nvidia/tensorflow:<tag>`
- C. `kubectl create pod --gpu=all nvr.io/nvidia/tensorflow:<tag>`
- D. `docker start nvr.io/nvidia/tensorflow:<tag>`

Answer: B

Explanation:

When running a GPU-enabled container directly on a server with Docker, the flag `--gpus all` is required to allow the container access to all GPUs on the host system. This ensures that the TensorFlow container can utilize GPU resources fully. The other options either do not specify GPU access correctly or are Kubernetes-specific commands.

NEW QUESTION # 53

A team is running a large distributed training job across multiple nodes in your Run.ai cluster. They are experiencing significant performance degradation due to network latency between the nodes. What are the possible solutions you can implement with Run.ai and potentially ACM to mitigate this issue?

- A. Configure node affinity rules to ensure that all nodes participating in the distributed training job are located within the same rack or network segment.
- B. Enable RDMA (Remote Direct Memory Access) and ensure proper network configuration for low-latency communication.
- C. Increase the number of GPUs requested per node to reduce inter-node communication.
- D. Implement data parallelism instead of model parallelism.
- E. Use Run.ai's built-in network acceleration features.

Answer: A,B

Explanation:

RDMA is a key technology for reducing network latency in distributed training. It allows direct memory access between GPUs on different nodes, bypassing the CPU and reducing overhead. Configuring node affinity to keep the nodes within the same rack or network segment minimizes physical distance and network hops, further reducing latency. Increasing GPUs per node can help but is not directly addressing the inter-node latency issue. Data vs. model parallelism is an application-level choice. Run.ai doesn't have built-in network acceleration as a specific feature, but it supports the underlying technologies like RDMA.

NEW QUESTION # 54

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