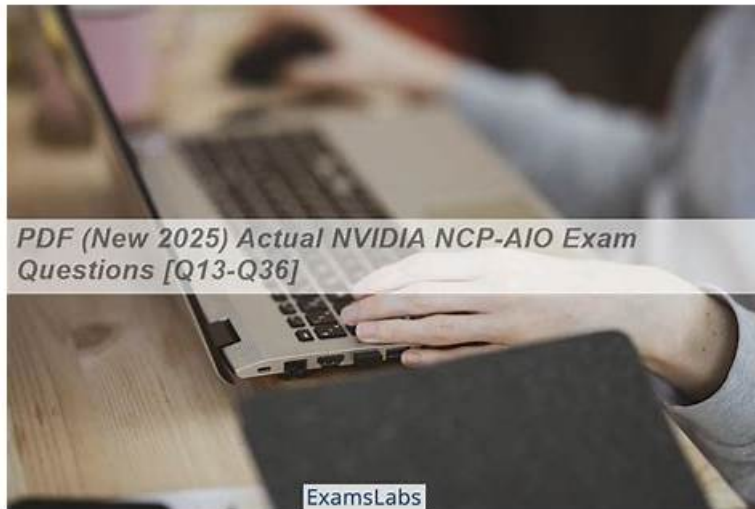


NCP-AIO Exam Questions Answers & NCP-AIO Interactive Questions



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NVIDIA NCP-AIO Exam Syllabus Topics:

Topic	Details
Topic 1	<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.
Topic 2	<ul style="list-style-type: none"> Troubleshooting and Optimization: NVIThis 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 3	<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 4	<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.

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NVIDIA AI Operations Sample Questions (Q44-Q49):

NEW QUESTION # 44

You are designing storage for an AI model that performs real-time object detection on streaming video. Which of the following storage characteristics are most important?

- A. Support for cold storage.
- **B. Low latency for accessing video frames during inference.**
- C. Large capacity for long-term video archival.
- **D. High sustained write throughput for incoming video streams.**
- E. Data deduplication for minimizing storage costs.

Answer: B,D

Explanation:

Real-time object detection requires both the ability to ingest incoming video streams quickly (high write throughput) and access frames with minimal delay (low latency) for inference. Long-term archival and deduplication are less critical for real-time performance. Cold storage is not relevant in the operational data flow.

NEW QUESTION # 45

A BCM pipeline deployed using containers is failing to launch with a 'CUDA driver version is insufficient for CUDA runtime version' error.

What is the root cause and solution?

- A. The host machine's NVIDIA driver is older than the CUDA runtime version used in the container. Upgrade the host's NVIDIA driver.
- B. The container image has an incorrect CUDA runtime version. Rebuild the container image with a CUDA runtime version compatible with the host driver.
- **C. A and B**
- D. The 'nvidia-container-runtime' is not properly configured. Verify the configuration and restart the container runtime.
- E. The container is not requesting GPU resources correctly. Ensure the container runtime is configured to allow GPU access.

Answer: C

Explanation:

The error indicates a mismatch between host driver and container runtime versions. Upgrading the driver or rebuilding the container with a compatible runtime are the solutions.

NEW QUESTION # 46

You're using Docker Swarm to orchestrate a cluster of machines, some with GPUs and some without. You want to deploy a containerized AI application that requires GPUs, ensuring it only runs on nodes with GPUs available. How do you achieve this?

- A. Use environment variables within the container to check for the presence of NVIDIA devices and exit if none are found.
- B. Create separate Docker images one for GPU nodes and one for non-GPU nodes and deploy the appropriate image to each node type.
- C. Manually schedule the container on GPU-equipped nodes using 'docker run' with the '--gpus all' flag and node affinity.
- **D. Use Docker Compose with deployment constraints to specify the same node label requirement.**
- **E. Use Docker Swarm's node constraints to specify that the service should only run on nodes with the 'nvidia.gpu=present'**

label.

Answer: D,E

Explanation:

Docker Swarm (and Compose in deploy mode) supports node constraints, allowing you to target deployments to nodes with specific labels (like 'nvidia.gpu=present'). Setting labels on the Swarm nodes is required first. Environment variable checks (C) are less reliable. Manual scheduling (D) defeats the purpose of orchestration. Separate images (E) are unnecessary with proper constraint usage.

NEW QUESTION # 47

You are deploying a cloud VMI container with Kubernetes. Your application requires a specific NVIDIA driver version. How do you ensure the correct driver version is used within the container, especially when the host node might have a different driver version?

- A. Bake the required NVIDIA driver version directly into the container image during the Docker build process.
- B. Specify the desired driver version in the Kubernetes Deployment manifest using the 'nvidia.com/gpu.driver.version' resource limit.
- C. The NVIDIA driver version used on the host node is automatically inherited by the container; no specific configuration is needed.
- D. Utilize the NVIDIA Device Plugin for Kubernetes and configure it to inject the correct driver libraries into the container during runtime.
- E. Configure the Kubernetes node's operating system to always use the desired NVIDIA driver version globally.

Answer: A,D

Explanation:

Using the NVIDIA Device Plugin allows for dynamic injection of driver libraries. Baking the driver into the container also works, but it results in a larger image and less flexibility. Option A is not a valid resource limit. Overriding the host OS driver is not practical for multi-tenant environments. Relying on host inheritance is risky as driver versions can vary.

NEW QUESTION # 48

Which process ensures that input data used during inference is consistent with the data used during training, preventing discrepancies that could negatively affect model performance?

- A. Feature consistency
- B. Data normalization
- C. Feature store usage
- D. Data validation

Answer: C

Explanation:

Feature stores ensure consistent feature definitions between training and inference. This prevents training-serving skew, a common issue where differences in data processing lead to degraded model performance in production.

NEW QUESTION # 49

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