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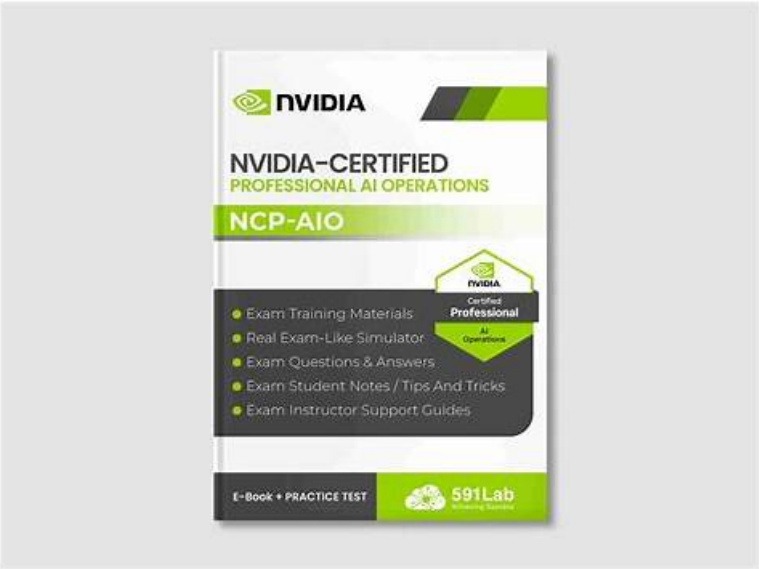

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NVIDIA NCP-AIO Exam Syllabus Topics:

Topic	Details
Topic 1	• 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 2	• 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	• 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	• 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.

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NVIDIA AI Operations Sample Questions (Q34-Q39):

NEW QUESTION # 34
Explain the process to perform a Blue-Green deployment for an AI model serving application running on a BCM-managed Kubernetes cluster. How do you minimize downtime and ensure a smooth transition?

- A. Take the existing application offline, deploy the new version, and then bring the application back online.
- B. Deploy the new version of the application alongside the existing version, then switch the service to point to the new version once it's ready.
- C. Create a new Kubernetes namespace for the new version, deploy the application, and then migrate traffic using DNS changes.
- D. Use a service mesh (e.g., Istio) to gradually shift traffic from the old version to the new version, monitoring metrics and performing rollbacks if necessary.
- E. Update the existing deployment in place, using a rolling update strategy with a small 'maxSurge' and 'maxUnavailable' to minimize disruption.

Answer: B,D

Explanation:
Blue-green involves deploying a parallel, identical environment (the 'blue' and 'green' versions) and switching traffic. A direct service switch after verifying the new version minimizes downtime. Service meshes provide fine-grained traffic control, enabling gradual rollouts and rollbacks. Rolling updates are more like incremental updates rather than switching. DNS migration isn't instant. Taking the app offline causes significant downtime. The service mesh can provide a safe path to Blue-Green.

NEW QUESTION # 35
You're running a large-scale distributed training job using PyTorch and notice that the data loading process is a bottleneck. Your data is stored on an object storage system. Which strategies can you employ to optimize data loading performance, especially considering the distributed nature of the training?

- A. Use PyTorch's 'DataLoader' with a high 'num_workers' value, even if it exceeds the number of CPU cores available.
- B. Ensure data is stored in a format optimized for parallel reads (e.g., Parquet, Apache Arrow) on the object store.
- C. Implement data caching on the local NVMe drives of each worker node to avoid repeated downloads from the object storage.
- D. Reduce the batch size to minimize the amount of data loaded per iteration.
- E. Use a distributed file system (e.g., Lustre, BeeGFS) as an intermediate layer between the object storage and the worker nodes.

Answer: B,C,E

Explanation:
Data caching on NVMe drives significantly reduces the need to repeatedly fetch data from object storage. Introducing a distributed

filesystem allows a central point where to access the objects. Parquet and Apache Arrow are optimized for columnar data that can be used for parallel access and loading of data from an object store.

NEW QUESTION # 36
You are deploying a PyTorch container from NGC that utilizes Tensor Cores. How can you verify that Tensor Cores are being effectively used during inference?

- A. Use the 'nvidia-smi' command to monitor GPU utilization and check for high Tensor Core activity.
- B. Use the NVIDIA Nsight Systems profiler to analyze GPU kernel execution and identify Tensor Core operations.
- C. Check the container logs for messages indicating Tensor Core usage.
- D. Examine the CUDA code within the container to confirm explicit Tensor Core API calls.
- E. Analyze the training loss curve; a steep decline indicates Tensor Core usage.

Answer: A,B

Explanation:
B and E are correct. 'nvidia-smi' shows GPU utilization, including Tensor Core activity. Nsight Systems provides detailed profiling information, allowing you to identify specific Tensor Core operations. A is unreliable as log messages may not always be present. C refers to training, not inference. D is impractical without access to the container's source code.

NEW QUESTION # 37
What is the primary benefit of using NVIDIA MIG in a multi-tenant environment?

- A. Guaranteed isolation and resource allocation for each tenant.
- B. Improved CPU performance.
- C. Simplified container deployment.
- D. Decreased memory usage.
- E. Increased network bandwidth.

Answer: A

Explanation:
MIG's primary benefit is to provide guaranteed isolation and resource allocation for each tenant in a multi-tenant environment. This ensures that each tenant has dedicated GPU resources and that their workloads do not interfere with each other.

NEW QUESTION # 38
What are the functionalities of 'SlurmDBD'?

- A. A web-based interface for managing Slurm clusters.
- B. A daemon used to manage Slurm's job queue.
- C. A command-line interface for submitting jobs to Slurm.
- D. A high performance database for storing accounting information.
- E. A tool for monitoring the health of Slurm nodes.

Answer: D

Explanation:
SlurmDBD (Slurm DataBase Daemon) is a high-performance database used to store accounting information, job history, and resource usage data for Slurm clusters. It allows administrators to track and analyze cluster usage patterns and generate reports.

NEW QUESTION # 39
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