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NVIDIA NCP-AIO Exam Syllabus Topics:

Topic	Details
Topic 1	• 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	• 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	• 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	• 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.

NVIDIA AI Operations Sample Questions (Q67-Q72):

NEW QUESTION # 67
You are deploying an AI application using Fleet Command. You want to ensure that the application automatically restarts if it crashes on an edge device. How can you achieve this?

- A. Configure a systemd service or similar process manager on the edge device to automatically restart the application.
- B. Disable the application's crash reporting to prevent crashes.
- C. Manually monitor the application and restart it if it crashes.
- D. Use Fleet Command's built-in health check and auto-restart features (if available and configured).
- E. Increase the memory allocated to the application to prevent crashes.

Answer: D

Explanation:
Fleet Command's built-in features are the most integrated and manageable way to handle application restarts. Manual monitoring (A) is not scalable. Systemd (B) requires manual configuration on each device. Disabling crash reporting (D) hides issues. Increasing memory (E) might help but doesn't guarantee restarts.

NEW QUESTION # 68
You are managing a Slurm cluster with multiple GPU nodes, each equipped with different types of GPUs. Some jobs are being allocated GPUs that should be reserved for other purposes, such as display rendering.
How would you ensure that only the intended GPUs are allocated to jobs?

- A. Verify that the GPUs are correctly listed in both gres.conf and slurm.conf, and ensure that unconfigured GPUs are

excluded.

- B. Reinstall the NVIDIA drivers to ensure proper GPU detection by Slurm.
- C. Use nvidia-smi to manually assign GPUs to each job before submission.
- D. Increase the number of GPUs requested in the job script to avoid using unconfigured GPUs.

Answer: A

Explanation:
In Slurm GPU resource management, the gres.conf file defines the available GPUs (generic resources) per node, while slurm.conf configures the cluster-wide GPU scheduling policies. To prevent jobs from using GPUs reserved for other purposes (e.g., display rendering GPUs), administrators must ensure that only the GPUs intended for compute workloads are listed in these configuration files.

NEW QUESTION # 69
You want to deploy a container from NGC using Helm. The container requires a persistent volume for storing model checkpoints. Which of the following Helm chart configurations is necessary to achieve this?
C]
C]

- A. Mount a shared network drive directly to the container without using Kubernetes persistent volumes.
- B. Define a 'PersistentVolumeClaim' in the Helm chart's 'values.yamr file and mount it to the container's volume.
- C. Directly specify the persistent volume in the container's deployment manifest within the Helm chart.
- D. Create a Kubernetes 'PersistentVolume' manually and reference it in the Helm chart's 'values.yamr file.
- E. Use the 'hostPath' volume type to directly mount a directory on the host machine.

Answer: B,D

Explanation:
A and D are correct. A 'PersistentVolumeClaims allows the container to request persistent storage dynamically. Alternatively, a pre-existing 'PersistentVolume' can be referenced. B bypasses Helm's templating capabilities. C is discouraged for production environments due to portability issues. E avoids Kubernetes' volume management capabilities.

NEW QUESTION # 70
Your BCM pipeline includes a stage that performs data augmentation. You suspect this stage is a bottleneck. How can you profile and optimize this stage?

- A. Adjust the data augmentation parameters (e.g., number of augmentations) to reduce the computational load.
- B. Use NVIDIA Nsight Systems to profile the execution of the data augmentation stage.
- C. Cache the augmented data to avoid redundant computations.
- D. Implement data augmentation on the GPU using libraries like DALI or cuCIM.
- E. All of the above.

Answer: E

Explanation:
Nsight Systems helps identify performance bottlenecks. GPU acceleration speeds up computations. Adjusting parameters reduces load. Caching avoids redundant work. All are valid optimization strategies.

NEW QUESTION # 71
Which technique helps reduce latency in real-time inference systems by precomputing frequently used features and storing them for quick access during prediction requests?

- A. Online learning
- B. Batch processing
- C. Data augmentation
- D. Feature caching

Answer: D

Explanation:
Feature caching stores precomputed features to reduce computation during inference. This improves response time and efficiency, especially in real-time systems where low latency is critical for user experience.

NEW QUESTION # 72
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