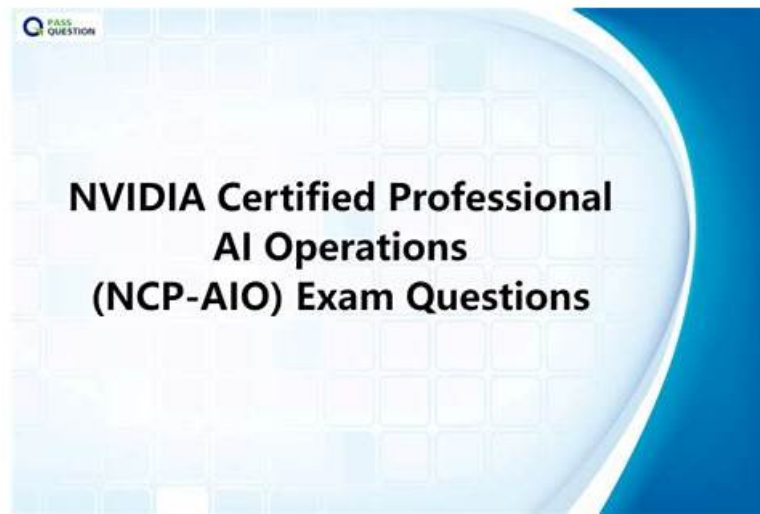


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NVIDIA NCP-AIO Exam Syllabus Topics:

Topic	Details
Topic 1	<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 2	<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 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 (Q29-Q34):

NEW QUESTION # 29

You have a Run.ai cluster integrated with NVIDIA's Cluster Manager (ACM). A data scientist reports that their job is being preempted frequently, even though they have a high-priority quota. What are the MOST likely reasons for this preemption, assuming ACM is configured correctly?

- A. The job is exceeding its memory limits.
- B. A higher priority job is requesting resources and preemption is enabled for that queue.
- C. The node where the job is running is being drained for maintenance.
- D. The job is using an outdated CUDA driver version.
- E. Another job with a higher guaranteed quota and higher priority needs the resources.

Answer: B,C,E

Explanation:

Preemption in Run.ai with ACM is typically triggered by: Another job with a higher guaranteed quota and higher priority needing the resources (ACM prioritizes based on quota and priority). The node being drained (Kubernetes initiates preemption to safely evacuate pods before maintenance). A higher priority job needing resources and preemption is enabled. Exceeding memory limits usually results in an OOM error, not preemption. An outdated CUDA driver could cause errors, but not typically preemption. Note that OOM can occur on containers when the available memory is exhausted, which can cause them to be killed

NEW QUESTION # 30

When deploying BCM using Helm, which Helm chart parameter controls the resource limits for the BCM pods (CPU and Memory)?

- A. `resources.limits`
- B. `'deployment.resources.limits'`
- C. `bcm.resources.limits`
- D. `'resources.bcmLimits'`
- E. `'bcmResources.limits'`

Answer: A

Explanation:

The `'resources.limits'` parameter in the Helm chart is the standard way to specify resource limits (CPU and memory) for pods deployed via Helm. This parameter is used to configure the resource requests and limits for the BCM pods.

NEW QUESTION # 31

Which approach involves running a new model in parallel with the existing production model without affecting user-facing predictions to evaluate its performance in real-time conditions?

- A. Canary testing
- B. Blue-green deployment
- C. A/B testing
- D. Shadow deployment

Answer: D

Explanation:

Shadow deployment allows a new model to process real production data without influencing outputs. This helps teams evaluate performance safely before full deployment, identifying potential issues without impacting users.

NEW QUESTION # 32

You are the administrator of a Run.ai cluster with ACM enabled. You need to implement a chargeback mechanism to accurately track GPU usage and allocate costs to different research groups. What key pieces of information do you need to collect and what Run.ai and/or ACM features can help automate this process?

- A. GPU utilization per job, job duration, and associated research group. ACM and Run.ai provide APIs and dashboards for collecting this data, which can then be integrated with a billing system.
- B. Total number of jobs submitted by each group. Run.ai provides a summary of job submissions in the UI.
- C. Network bandwidth used by each job. This is the best indicator of resource consumption.
- D. Average job completion time. Use this to distribute the cost equally.
- E. CPU utilization per job. This is the primary factor in determining costs.

Answer: A

Explanation:

For accurate chargeback, you need GPU utilization per job, job duration (to quantify resource usage over time), and the associated research group to whom the cost should be allocated. ACM and Run.ai provide APIs and dashboards for collecting this data, which can be integrated with a billing system for automated chargeback. While the total number of jobs submitted can be an indicator of activity, it doesn't reflect actual resource usage. CPU utilization and network bandwidth are less relevant than GPU utilization in a GPU-accelerated environment. Average job completion time is insufficient for equitable cost allocation.

NEW QUESTION # 33

A distributed BCM pipeline running on multiple nodes exhibits significant performance degradation when scaling to a larger number of nodes. Network bandwidth and storage I/O are not saturated. What's the likely cause?

- A. Excessive communication overhead between nodes due to frequent data transfers or synchronization.
- B. Inefficient data partitioning across the nodes, leading to uneven workload distribution.
- C. Incorrect configuration of the distributed BCM framework, causing suboptimal task scheduling.
- D. Insufficient CPU cores or memory on individual nodes, limiting processing capacity.
- E. All of the above.

Answer: E

Explanation:

In distributed systems, workload imbalance, communication overhead, resource limitations, and incorrect framework configuration all contribute to scaling issues.

NEW QUESTION # 34

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