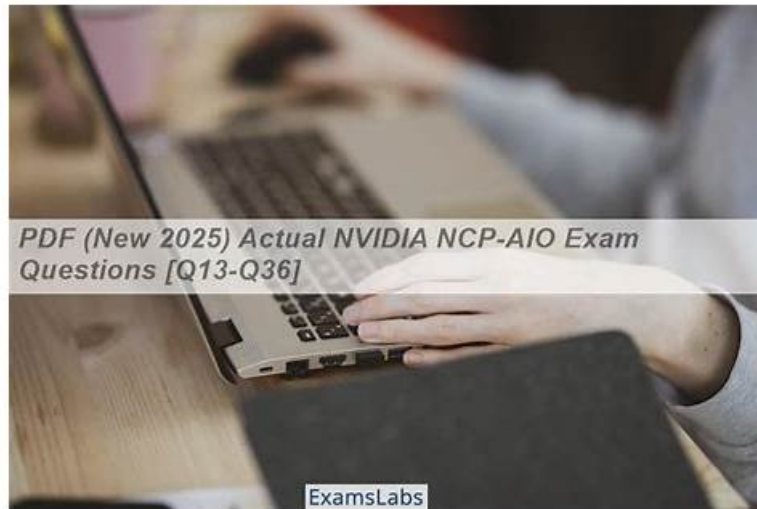


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Section	Objectives
Model Deployment and Serving	- Inference serving frameworks and APIs - Model packaging and containerization
Security and Governance	- Compliance and governance in AI systems - Data privacy and secure model deployment
Infrastructure for AI Workloads	- Cloud and on-prem AI deployment architectures - GPU-accelerated computing environments
AI Operations Fundamentals	- Introduction to AI systems lifecycle in production - Core concepts of MLOps and LLMOps
Monitoring and Observability	- Performance monitoring for AI models - Drift detection and alerting
Optimization and Lifecycle Management	- Model optimization techniques (quantization, pruning) - Continuous training and deployment pipelines

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NVIDIA AI Operations Sample Questions (Q43-Q48):

NEW QUESTION # 43

A DGX H100 system in a cluster is showing performance issues when running jobs. Which command should be run to generate system logs related to the health report?

- A. `nvsm health --dump-log`
- B. `nvsm get logs`
- C. `nvsm show logs --save`
- **D. `nvsm dump health`**

Answer: D

Explanation:

For troubleshooting and performance optimization on NVIDIA DGX systems such as DGX H100, the NVIDIA System Management (nvsm) tool is used to gather system health and diagnostic data. The command `nvsm dump health` is the correct command to generate and export detailed system logs related to the health report of the DGX system.

NEW QUESTION # 44

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

Answer: C

Explanation:

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

NEW QUESTION # 45

You are attempting to run a Docker container that leverages NVIDIA GPUs, but encounter the following error: 'docker: Error response from daemon: could not select device driver "nvidia" with capabilities: [[gpu]].' What is the most probable cause and how would you resolve it?

- **A. The NVIDIA Container Toolkit is not correctly installed or configured. Verify the installation and configuration following NVIDIA's documentation.**
- B. The NVIDIA driver version is incompatible with the Docker daemon. Update the NVIDIA drivers to the latest version.
- **C. The Docker daemon is not configured to use the NVIDIA runtime as its default runtime. Set the default runtime by editing '/etc/docker/daemon.json' and restarting the Docker daemon.**
- D. The '-gpus all' flag is missing from the 'docker run' command. Include the flag to enable GPU access for the container.
- E. The host system does not have any NVIDIA GPUs installed. Verify that NVIDIA GPUs are installed and detected by the system.

Answer: A,C

Explanation:

The error message 'could not select device driver nvidia with capabilities: [[gpu]]' points directly to a problem with the NVIDIA Container Toolkit (A), and incorrect NVIDIA runtime setup and configuration within the Docker daemon. Verify installation of NVIDIA Container Toolkit, and set the default runtime in 'etc/docker/daemon.json' file.

NEW QUESTION # 46

Your Kubernetes cluster hosts several AI workloads with varying GPU requirements. Some workloads require high compute performance, while others are memory-bound. You want to optimize GPU resource allocation by bin-packing workloads with complementary resource profiles onto the same nodes. How would you approach this?

- A. Configure resource quotas to limit the overall GPU usage in the cluster.
- B. Implement a vertical pod autoscaler (VPA) to dynamically adjust the GPU resource requests of pods based on their actual usage.
- C. Manually assign workloads to specific nodes based on their resource requirements.
- **D. Employ a custom Kubernetes scheduler that considers GPU compute and memory usage when placing pods.**
- E. Use node affinity rules to schedule all workloads onto the same set of nodes, regardless of their resource profiles.

Answer: D

Explanation:

The correct answer is B. A custom Kubernetes scheduler allows you to implement sophisticated bin-packing algorithms that consider both GPU compute and memory usage to optimize resource allocation. This enables you to pack workloads with complementary resource profiles onto the same nodes, maximizing GPU utilization. Option A ignores resource profiles. Option C is not scalable. Option D limits overall usage but doesn't optimize placement. Option E focuses on individual pod resource adjustment, not bin-packing.

NEW QUESTION # 47

A data science team is using Fleet Command to deploy AI models to edge devices in a smart city project. They've noticed that some devices are consistently failing to update due to insufficient disk space. Which of the following is the MOST effective strategy to mitigate this issue?

- A. Increase the disk space on all edge devices remotely via Fleet Command.
- B. Ignore the failing devices and focus on the ones that are updating successfully.
- **C. Implement a process to automatically clean up unused files and data on the edge devices before each update.**
- D. Roll back the updates to the previous version for all devices.
- E. Optimize the deployed models to reduce their size, and update the affected devices only.

Answer: C

Explanation:

Optimizing models (B) is helpful, but a cleanup process (E) addresses the root cause. Increasing disk space (A) might not be feasible or cost-effective. Ignoring devices (C) is unacceptable. Rolling back updates (D) is a temporary solution. Thus, automatically cleaning up unused files is the most proactive and sustainable approach.

NEW QUESTION # 48

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