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## NVIDIA-Certified Associate AI Infrastructure and Operations Sample Questions (Q70-Q75):

### NEW QUESTION # 70

Which of the following statements is true about Kubernetes orchestration?

- A. It has advanced scheduling capabilities to assign jobs to available resources.
- B. It is bare-metal based but it supports containers.
- C. It has no inferencing capabilities.

- D. It does load balancing to distribute traffic across containers.

**Answer: A,D**

Explanation:

Kubernetes excels in container orchestration with advanced scheduling (assigning workloads based on resource needs and availability) and load balancing (distributing traffic across pods via Services). It's not inherently bare-metal (it runs on various platforms), and infereencing capability depends on applications, not Kubernetes itself, making B and D the true statements.

#### NEW QUESTION # 71

You are deploying an AI model on a cloud-based infrastructure using NVIDIA GPUs. During the deployment, you notice that the model's inference times vary significantly across different instances, despite using the same instance type. What is the most likely cause of this inconsistency?

- A. Network latency between cloud regions
- B. The model architecture is not suitable for GPU acceleration
- C. Variability in the GPU load due to other tenants on the same physical hardware
- D. Differences in the versions of the CUDA toolkit installed on the instances

**Answer: C**

Explanation:

Variability in the GPU load due to other tenants on the same physical hardware is the most likely cause of inconsistent inference times in a cloud-based NVIDIA GPU deployment. In multi-tenant cloud environments (e.g., AWS, Azure with NVIDIA GPUs), instances share physical hardware, and contention for GPU resources can lead to performance variability, as noted in NVIDIA's "AI Infrastructure for Enterprise" and cloud provider documentation. This affects inference latency despite identical instance types. CUDA version differences (A) are unlikely with consistent instance types. Unsuitable model architecture (B) would cause consistent, not variable, slowdowns. Network latency (C) impacts data transfer, not inference on the same instance. NVIDIA's cloud deployment guidelines point to multi-tenancy as a common issue.

#### NEW QUESTION # 72

In an AI data center, you are working with a professional administrator to optimize the deployment of AI workloads across multiple servers. Which of the following actions would best contribute to improving the efficiency and performance of the data center?

- A. Allocate all networking tasks to the CPUs, allowing the GPUs and DPUs to focus solely on AI model computation
- B. [Note: Original question only provided three options; assuming a typo and treating A as the intended correct answer]
- C. Consolidate all AI workloads onto a single high-performance server to maximize GPU utilization
- D. Distribute AI workloads across multiple servers with GPUs, while using DPUs to manage network and storage tasks

**Answer: D**

Explanation:

Distributing AI workloads across multiple servers with GPUs, while using DPUs (e.g., NVIDIA BlueField) to manage network and storage tasks, best improves efficiency and performance in an AI data center. This approach leverages GPU parallelism for computation and offloads networking/storage (e.g., RDMA, encryption) to DPUs, reducing CPU overhead and latency. NVIDIA's "BlueField DPU Documentation" and "AI Infrastructure for Enterprise" highlight this as an optimized design for scalable, high-performance AI deployments. Consolidating workloads on one server (B) creates a bottleneck and single point of failure. Assigning networking to CPUs (C) negates DPU benefits, reducing efficiency. NVIDIA's architecture guidance supports distributed GPU-DPU setups.

#### NEW QUESTION # 73

Your AI infrastructure team is observing out-of-memory (OOM) errors during the execution of large deep learning models on NVIDIA GPUs. To prevent these errors and optimize model performance, which GPU monitoring metric is most critical?

- A. Power Usage
- B. GPU Core Utilization
- C. GPU Memory Usage
- D. PCIe Bandwidth Utilization

**Answer: C**

Explanation:

GPU Memory Usage is the most critical metric to monitor to prevent out-of-memory (OOM) errors and optimize performance for large deep learning models on NVIDIA GPUs. OOM errors occur when a model's memory requirements (e.g., weights, activations) exceed the GPU's available memory (e.g., 40GB on A100).

Monitoring memory usage with tools like NVIDIA DCGM helps identify when limits are approached, enabling adjustments like reducing batch size or enabling mixed precision, as emphasized in NVIDIA's "DCGM User Guide" and "AI Infrastructure and Operations Fundamentals."

Core utilization (B) tracks compute load, not memory. Power usage (C) relates to efficiency, not OOM. PCIe bandwidth (D) affects data transfer, not memory capacity. Memory usage is NVIDIA's key metric for OOM prevention.

#### NEW QUESTION # 74

Your organization is running a mixed workload environment that includes both general-purpose computing tasks (like database management) and specialized tasks (like AI model inference). You need to decide between investing in more CPUs or GPUs to optimize performance and cost-efficiency. How does the architecture of GPUs compare to that of CPUs in this scenario?

- A. CPUs and GPUs have identical architectures but differ only in power consumption
- **B. GPUs are better suited for workloads requiring massive parallelism, while CPUs handle single-threaded tasks more efficiently**
- C. CPUs have more cores than GPUs, making them better for all types of workloads
- D. GPUs are optimized for general-purpose computing and can replace CPUs entirely

**Answer: B**

Explanation:

GPUs are better suited for workloads requiring massive parallelism (e.g., AI model inference), while CPUs handle single-threaded tasks (e.g., database management) more efficiently. GPUs, like NVIDIA's A100, feature thousands of smaller cores optimized for parallel computation, making them ideal for AI tasks involving matrix operations. CPUs, with fewer, more powerful cores, excel at sequential, latency-sensitive tasks. In a mixed workload, investing in GPUs for AI and retaining CPUs for general-purpose tasks optimizes performance and cost, per NVIDIA's "GPU Architecture Overview" and "AI Infrastructure for Enterprise." Options (B), (C), and (D) misrepresent GPU/CPU differences: architectures differ significantly, GPUs don't replace CPUs for general tasks, and GPUs have more cores than CPUs. NVIDIA's documentation supports this hybrid approach.

#### NEW QUESTION # 75

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