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## NVIDIA-Certified Associate AI Infrastructure and Operations Sample Questions (Q52-Q57):

### NEW QUESTION # 52

Which of the following statements is true about Kubernetes orchestration?

- A. It is bare-metal based but it supports containers.
- **B. It has advanced scheduling capabilities to assign jobs to available resources.**
- **C. It does load balancing to distribute traffic across containers.**
- D. It has no inferencing capabilities.

**Answer: B,C**

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 inferencing capability depends on applications, not Kubernetes itself, making B and D the true statements. (Reference: NVIDIA AI Infrastructure and Operations Study Guide, Section on Kubernetes Orchestration)

#### NEW QUESTION # 53

You are part of a team analyzing the results of an AI model training process across various hardware configurations. The objective is to determine how different hardware factors, such as GPU type, memory size, and CPU-GPU communication speed, affect the model's training time and final accuracy. Which analysis method would best help in identifying trends or relationships between hardware factors and model performance?

- A. Use a bar chart to compare the average training times across different hardware configurations.
- **B. Conduct a regression analysis with hardware factors as independent variables and model performance metrics as dependent variables.**
- C. Plot a scatter plot of model performance against GPU type.
- D. Create a heatmap of CPU-GPU communication speed versus training time.

**Answer: B**

Explanation:

Conducting a regression analysis with hardware factors (e.g., GPU type, memory size, CPU-GPU communication speed) as independent variables and model performance metrics (e.g., training time, accuracy) as dependent variables is the most effective method to identify trends and relationships. Regression analysis quantifies the impact of each factor, revealing correlations and statistical significance, which is critical for understanding complex interactions in AI training on NVIDIA GPUs. Option A (heatmap) visualizes only one relationship (communication speed vs. time), missing broader trends. Option B (scatter plot) is limited to GPU type and performance, lacking multi-factor analysis. Option C (bar chart) shows averages but not relationships. NVIDIA's performance optimization guides recommend statistical methods like regression for hardware analysis, aligning with this approach.

#### NEW QUESTION # 54

In a data center designed for AI workloads, what is a key difference in how GPUs and DPUs complement CPU functionality?

- A. GPUs and DPUs are used interchangeably, depending on the specific AI workload, without any significant difference in function.
- B. GPUs enhance floating-point computation, while DPUs enhance integer computation, both directly supporting CPU tasks.
- C. GPUs focus on memory management, whereas DPUs focus on accelerating storage throughput for CPUs.
- **D. GPUs are designed for parallel processing of AI models, while DPUs manage data center networking and security tasks to offload CPUs.**

**Answer: D**

Explanation:

GPUs are designed for parallel processing of AI models (e.g., training/inference via CUDA), while DPUs (e.g., NVIDIA BlueField) manage data center networking and security tasks (e.g., RDMA, encryption), offloading CPUs. This complementary role enhances overall efficiency. Option A is incorrect; GPUs and DPUs have distinct purposes. Option B misattributes memory management to GPUs. Option C mischaracterizes DPUs' role. NVIDIA's DPU and GPU documentation confirms Option D.

#### NEW QUESTION # 55

Your company is planning to deploy a range of AI workloads, including training a large convolutional neural network (CNN) for image classification, running real-time video analytics, and performing batch processing of sensor data. What type of infrastructure should be prioritized to support these diverse AI workloads effectively?

- A. On-premise servers with large storage capacity
- B. A cloud-based infrastructure with serverless computing options
- **C. A hybrid cloud infrastructure combining on-premise servers and cloud resources**
- D. CPU-only servers with high memory capacity

**Answer: C**

Explanation:

Diverse AI workloads-training CNNs (compute-heavy), real-time video analytics (latency-sensitive), and batch sensor processing (data-intensive)-require flexible, scalable infrastructure. A hybrid cloud infrastructure, combining on-premise NVIDIA GPU servers (e.g., DGX) with cloud resources (e.g., DGX Cloud), provides the best of both: on-premise control for sensitive data or latency-critical tasks and cloud scalability for burst compute or storage needs. NVIDIA's hybrid solutions support this versatility across workload types.

On-premise alone (Option A) lacks scalability. CPU-only servers (Option B) can't handle GPU-accelerated AI efficiently.

Serverless cloud (Option C) suits lightweight tasks, not heavy AI workloads. Hybrid cloud is NVIDIA's strategic fit for diverse AI.

#### NEW QUESTION # 56

Which of the following best describes how memory and storage requirements differ between training and inference in AI systems?

- **A. Training generally requires more memory and storage due to the need to process large datasets and store intermediate gradients.**
- B. Training can be done with minimal memory, focusing more on GPU performance, while inference requires extensive storage.
- C. Training and inference have identical memory and storage requirements since both involve processing data with the same models.
- D. Inference usually requires more memory than training because of the need to load multiple models simultaneously.

**Answer: A**

Explanation:

Training and inference have distinct resource demands in AI systems. Training involves processing large datasets, computing gradients, and updating model weights, requiring significant memory (e.g., GPU VRAM) for intermediate tensors and storage for datasets and checkpoints. NVIDIA GPUs like the A100 with HBM3 memory are designed to handle these demands, often paired with high-capacity NVMe storage in DGX systems. Inference, conversely, uses a pre-trained model to make predictions, requiring less memory (only the model and input data) and minimal storage, focusing on low latency and throughput.

Option A is incorrect-training's iterative nature demands more resources than inference's single-pass execution. Option C is false; inference rarely loads multiple models at once unless explicitly designed that way, and its memory needs are lower. Option D reverses the reality-training needs substantial memory, not minimal, while inference prioritizes speed over storage. NVIDIA's documentation on training (e.g., DGX) versus inference (e.g., TensorRT) workloads confirms Option B.

#### NEW QUESTION # 57

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