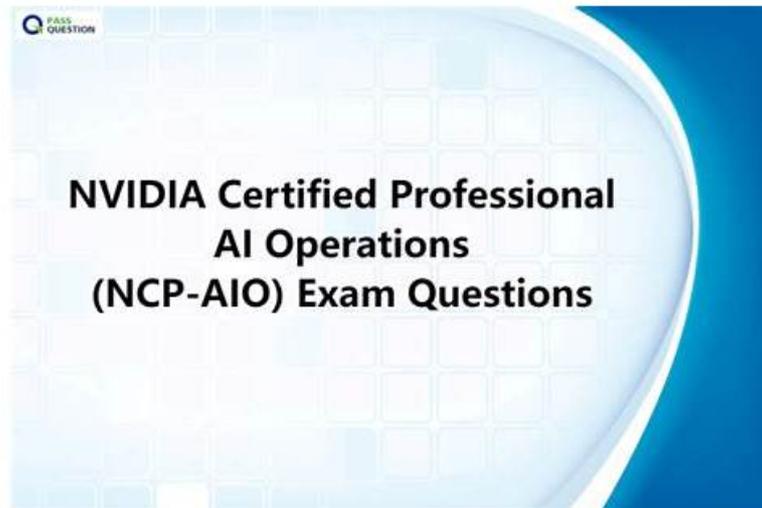


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NVIDIA AI Operations Sample Questions (Q61-Q66):

NEW QUESTION # 61

You are implementing a DOCA application on a BlueField-3 DPU that requires secure communication with a remote server. Which of the following methods can be used to establish a secure connection, and what are the key considerations?

- A. Using DOCA Comm Channel with encryption: Enable encryption within the DOCA Comm Channel for secure control message exchange, managing encryption keys appropriately.
- B. Using IPsec: Configure IPsec tunnels between the DPU and the remote server for secure IP-layer communication, considering encryption algorithms and authentication methods.

- C. Using MACsec: Implement MACsec on ethernet to ensure communication link level security.
- D. Using SSH tunneling: Establish an SSH tunnel between the DPU and the remote server to forward traffic securely, ensuring proper authentication and authorization.
- E. Using TLS/SSL: Implement TLS/SSL encryption for all communication channels, ensuring proper certificate management and key exchange.

Answer: B,D,E

Explanation:

TLS/SSL, IPsec, and SSH tunneling are all viable options for establishing secure communication. Key considerations include certificate management, encryption algorithms, authentication methods, and key exchange mechanisms. MACsec is more of a link level security. Comm channel doesn't have security mechanism defined.

NEW QUESTION # 62

You are responsible for deploying a deep learning model for real-time inference using Triton Inference Server from NGC. Latency is a critical requirement. Which of the following optimization techniques can you employ to minimize inference latency?

- A. Use dynamic batching to aggregate multiple inference requests into a single batch.
- B. Disable CUDA graphs to improve CPU utilization.
- C. Reduce the model's precision (e.g., from FP32 to FP16 or INT8).
- D. Increase the number of instances of the model deployed on the Triton server.
- E. Optimize the model's architecture and code for GPU execution.

Answer: A,C,D,E

Explanation:

A, B, C and E are correct. Increasing instances allows for parallel processing. Dynamic batching improves throughput. Reducing precision accelerates computation. Model optimization enhances GPU utilization. D is generally incorrect; CUDA graphs typically improve performance by reducing kernel launch overhead.

NEW QUESTION # 63

You are troubleshooting a distributed deep learning training job that utilizes GPUDirect Storage for data loading and CUDA-Aware MPI with GPUDirect RDMA for inter-GPU communication. The training process is significantly slower than expected, and you suspect a bottleneck in the data pipeline. You've used 'nvprof' and determined that the data loading phase is taking an unusually long time. Which of the following steps would be the MOST effective next step in diagnosing the issue? SELECT TWO.

- A. Examine the NCCL logs for communication errors.
- B. Profile the network bandwidth
- C. Monitor the CPU utilization during the data loading phase.
- D. Verify that the storage devices being used support GPUDirect Storage.
- E. Check the PCIe bandwidth utilization between the storage devices and the GPUs.

Answer: D,E

Explanation:

Explanation: Given that 'nvprof' indicates a slow data loading phase, the most effective next steps are to: 1. Verify that the storage devices support GPUDirect Storage: If the storage devices do not properly support GPUDirect Storage, the data will likely be transferred through the CPU, negating the performance benefits. 2. Check the PCIe bandwidth utilization: Even if the storage devices support GPUDirect Storage, the PCIe link between the storage devices and the GPUs may be saturated, limiting the data transfer rate. High CPU utilization (A) might indicate that GPUDirect Storage is not working correctly, but verifying storage support is more direct. NCCL logs (D) are more relevant for inter-GPU communication issues. Network bandwidth (E) impacts inter-GPU communication, but the problem is data loading.

NEW QUESTION # 64

An AI research team requires access to GPU resources for both training and inference tasks. You are responsible for configuring the NVIDIA A100 GPUs using MIG. The training task requires high memory bandwidth, while the inference tasks require low latency. How would you configure MIG to best satisfy both workloads simultaneously?

- A. Create a single large MIG instance and allocate it dynamically between training and inference.
- B. Create MIG instances with the same memory and compute allocation for both training and inference.
- C. Create a large MIG instance for training and a small MIG instance for inference.
- **D. Create a MIG instance with high memory bandwidth for training and a MIG instance with optimized compute for low-latency inference.**
- E. Don't use MIG at all, and schedule tasks based on priority.

Answer: D

Explanation:

By creating MIG instances tailored to the specific needs of each task high memory bandwidth for training and optimized compute for low-latency inference you ensure optimal performance for both workloads. Options A and B may not fully address the specific needs of the training and inference tasks. Option D is not suitable because dynamic allocation may introduce latency and complicate resource management. Option E means there will be resource contention and is bad.

NEW QUESTION # 65

You are deploying a multi-GPU training job using a container from NGC on a Slurm cluster. The container expects the number of GPUs to be available in the 'CUDA_VISIBLE_DEVICES' environment variable. How do you ensure this variable is correctly set within the Slurm job script?

- **A. Use the Slurm command 'srun' with the '-gpus' option to allocate GPUs and automatically set**
- **B. Utilize the Slurm environment variable 'SLURM_JOB_GPUS' to dynamically set 'CUDA_VISIBLE_DEVICES' in the job script (e.g., 'export**
- C. Configure the NVIDIA Container Toolkit to automatically detect and set 'CUDA_VISIBLE_DEVICES'.
- D. Set the environment variable manually in the Slurm job script to a fixed value (e.g.,
- E. Define the 'CUDA_VISIBLE_DEVICES' environment variable in the containers Docket-file.

Answer: A,B

Explanation:

B and D are correct. 'srun -gpus' handles GPU allocation and sets the environment variable. 'SLURM_JOB_GPUS' provides a dynamic way to access allocated GPUs within the script. A is incorrect as it doesn't adapt to the actual allocation. C is incorrect because it's not a Slurm configuration. E depends on the specific toolkit version and might not be reliable without explicit configuration in the job script.

NEW QUESTION # 66

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