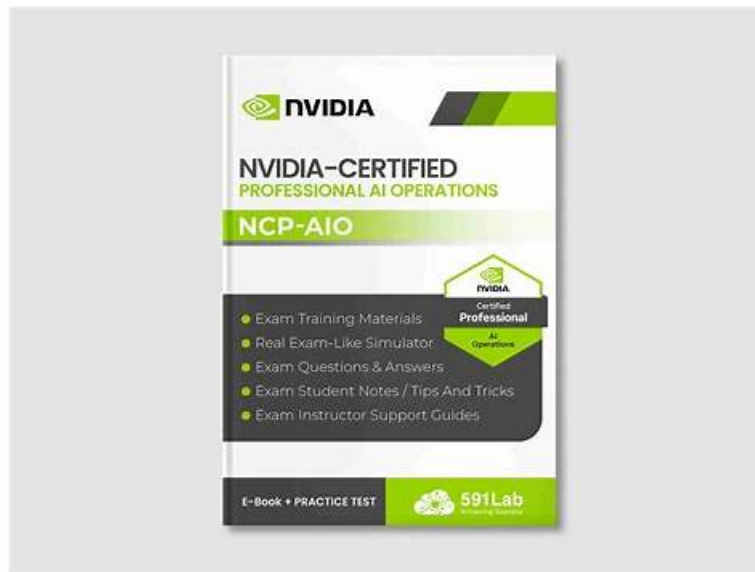


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NVIDIA AI Operations Sample Questions (Q25-Q30):

NEW QUESTION # 25

You are tasked with deploying a DOCA application on a DPU running in an environment with strict security requirements. The application needs to access sensitive data, and you need to ensure that the data is protected at all times. Which of the following security measures should be implemented?

- A. Secure boot: Enable secure boot to ensure that only trusted code is executed on the DPU.
- B. Intrusion detection and prevention: Deploy intrusion detection and prevention systems to detect and prevent unauthorized access to sensitive data.
- C. Access control: Implement strict access control policies to limit access to sensitive data to authorized users and processes only.
- D. Data encryption: Encrypt all sensitive data at rest and in transit using strong encryption algorithms.

- E. Enable debug mode: to see all packets

Answer: A,B,C,D

Explanation:

Data encryption, access control, secure boot, and intrusion detection/prevention are all essential security measures for protecting sensitive data. Enable debug mode exposes the sensitive data, and therefore not a solution for secure deployment.

NEW QUESTION # 26

An administrator requires full access to the NGC Base Command Platform CLI. Which command should be used to accomplish this action?

- A. `ngc set API`
- **B. `ngc config set`**
- C. `ngc config BCP`

Answer: B

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

The command `ngc config set` is used to configure the NGC CLI, including setting up API keys, access tokens, and other credentials necessary for full access to the Base Command Platform (BCP) CLI functionalities. This command enables users to authenticate and manage their access effectively.

NEW QUESTION # 27

You are managing a Kubernetes cluster used for AI model training. One of the training jobs requires exclusive access to a specific GPU with PCI ID. Which of the following Kubernetes manifests correctly configures this requirement for the pod?

- A. ☐
- B. ☐
- **C. ☐**
- D. ☐
- E. ☐

Answer: C

Explanation:

The correct answer is A. Setting the 'CUDA_VISIBLE_DEVICES' environment variable with the specific PCI ID ensures the container only sees that GPU. Option B attempts to use a nodeselector, which is not the correct way to request specific GPUs; it's more for scheduling to a node with GPUs. Options C and D do not enforce PCI ID exclusivity. Option E is too generic and doesn't target a specific GPU.

NEW QUESTION # 28

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

Answer: A,B

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 # 29

While monitoring your storage system during a large training job, you notice consistently high disk I/O wait times ('iowait'). What does this metric indicate, and what actions can you take to mitigate it?

- A. High 'iowait' means the system is swapping memory to disk. Add more RAM or reduce memory usage.
- B. High 'iowait' means the CPU is waiting for I/O operations to complete. Increase CPU cores.
- C. High 'iowait' indicates network congestion. Optimize network configuration.
- D. High 'iowait' is normal during large training jobs and does not require any action.
- E. High 'iowait' means the CPU is waiting for I/O operations to complete. Investigate storage performance bottlenecks such as disk saturation, network latency (if using networked storage), or inefficient data access patterns.

Answer: E

Explanation:

'iowait' directly reflects the time the CPU spends idle, waiting for disk I/O operations. The solutions are targeted to identify whether the bottleneck is disk saturation, network latency or inefficient data access patterns.

NEW QUESTION # 30

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