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NVIDIA Certified Professional AI Operations

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NVIDIA AI Operations Sample Questions (Q56-Q61):

NEW QUESTION # 56

You are deploying a DOCA application on a BlueField-3 DPU. Which of the following components are essential for enabling RDMA communication between the DPU and the host server?

- A. Kernel bypass techniques like DPDK only on the DPU.
- B. Mellanox OFED (MLNX_OFED) driver on both the DPU and the host.
- C. Appropriate firewall rules configured on both the host and the DPU.
- D. Correctly configured PCI passthrough or SR-IOV on the host for the DPU's RDMA interfaces.
- E. DOCA SDK installed on the DPU only.

Answer: B,D

Explanation:

RDMA communication requires the correct drivers (MLNX_OFED) on both ends and proper PCI passthrough or SR-IOV configuration on the host to expose the DPU's RDMA capabilities. DOCA SDK helps build the applications, firewall rules are orthogonal and DPDK is one of the options. Kernel bypass on both host and dpu is needed.

NEW QUESTION # 57

A user is running a large language model (LLM) training job on a multi-GPU server. The job utilizes PyTorch's 'DistributedDataParallel' (DDP). The training process seems to hang intermittently. How can you troubleshoot this issue using system management tools?

- A. Monitor network bandwidth utilization between GPUs using 'eth0toor'.
- B. Examine the system logs C/var/log/syslog or similar for any error messages related to network or GPU communication.
- C. Use 'perf' to profile the CPU usage of the PyTorch processes.
- D. Use 'nvidia-smi' to check GPU utilization and memory usage to identify potential imbalances across GPUs.
- E. Run 'iostat' to observe disk I/O activity, as it might be causing delays.

Answer: A,B,D

Explanation:

DDP relies on efficient inter-GPU communication. Network bottlenecks (A) can cause hangs. GPU utilization imbalances (B) can lead to some GPUs waiting for others. System logs (C) might contain error messages indicating communication failures. While CPU profiling (D) and disk I/O monitoring (E) might be useful in other scenarios, they are less likely to be the primary cause of hangs in DDP training.

NEW QUESTION # 58

What is the main purpose of using Multi-Instance GPU (MIG) with NVIDIA GPUs in a Kubernetes cluster managed by BCM, and what challenges does it help to address?

- A. To simplify the deployment and management of GPU drivers and NVIDIA Container Toolkit on Kubernetes nodes.
- B. To enable the execution of CUDA-unaware applications within Kubernetes by abstracting away the underlying GPU hardware.
- C. To facilitate running CPU-bound workloads directly on GPUs to maximize resource utilization.
- D. To increase GPU utilization and enable resource sharing in multi-tenant environments by partitioning a physical GPU into multiple isolated instances.
- E. To improve the overall performance of GPU-accelerated applications by allowing multiple containers to share a single GPU's memory and compute resources concurrently.

Answer: D

Explanation:

MIG's primary goal is to improve GPU utilization and enable resource sharing in multi-tenant environments. It helps address challenges related to GPU oversubscription and resource isolation by partitioning a physical GPU into multiple isolated instances.

MIG directly increases the total resource pool for GPU. Option A is not the use case as the objective is not about overall performance but about enabling more workloads.

NEW QUESTION # 59

A system administrator needs to optimize the delivery of their AI applications to the edge.
What NVIDIA platform should be used?

- A. NetQ
- B. Base Command Manager
- C. Base Command Platform
- D. **Fleet Command**

Answer: D

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

NVIDIAFleet Commandis the platform designed specifically to optimize and manage the deployment and delivery of AI applications at the edge. It enables secure and scalable orchestration of AI workloads across distributed edge devices, providing lifecycle management, remote monitoring, and updates. Fleet Command facilitates running AI applications closer to where data is generated (edge), improving latency and operational efficiency.

* Base Command Platform and Base Command Manager primarily target data center and AI cluster management for configuration, monitoring, and troubleshooting.

* NetQ is focused on network telemetry and network state monitoring rather than application delivery.

Therefore, for AI application delivery and optimization at the edge,Fleet Commandis the recommended NVIDIA platform

NEW QUESTION # 60

You have a Kubernetes cluster running AI workloads. The pods are experiencing intermittent storage performance issues, particularly when writing checkpoints. You are using a Container Storage Interface (CSI) driver for your storage. How would you go about troubleshooting this issue, focusing on the CSI driver and Kubernetes interaction?

- A. **Examine the logs of the CSI driver controller and node components for errors or warnings related to volume provisioning, attachment, and detachment.**
- B. Restart all pods in the cluster to clear any potential caching issues.
- C. Check kubernetes component logs such as kube-scheduler for any failures in scheduling the pods
- D. **Monitor the performance metrics of the underlying storage system (e.g., IOPS, latency, throughput) to identify any bottlenecks.**
- E. **Check the Kubernetes events related to the PersistentVolumeClaims (PVCs) used by the pods for any storage-related errors or delays.**

Answer: A,D,E

Explanation:

The CSI driver logs provide insights into storage operations initiated by Kubernetes. Examining Kubernetes events related to PVCs can reveal errors during provisioning or attachment. Underlying storage metrics highlight performance bottlenecks. Restarting all pods is a bad idea and should not be done unless you have a very good reason.

NEW QUESTION # 61

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