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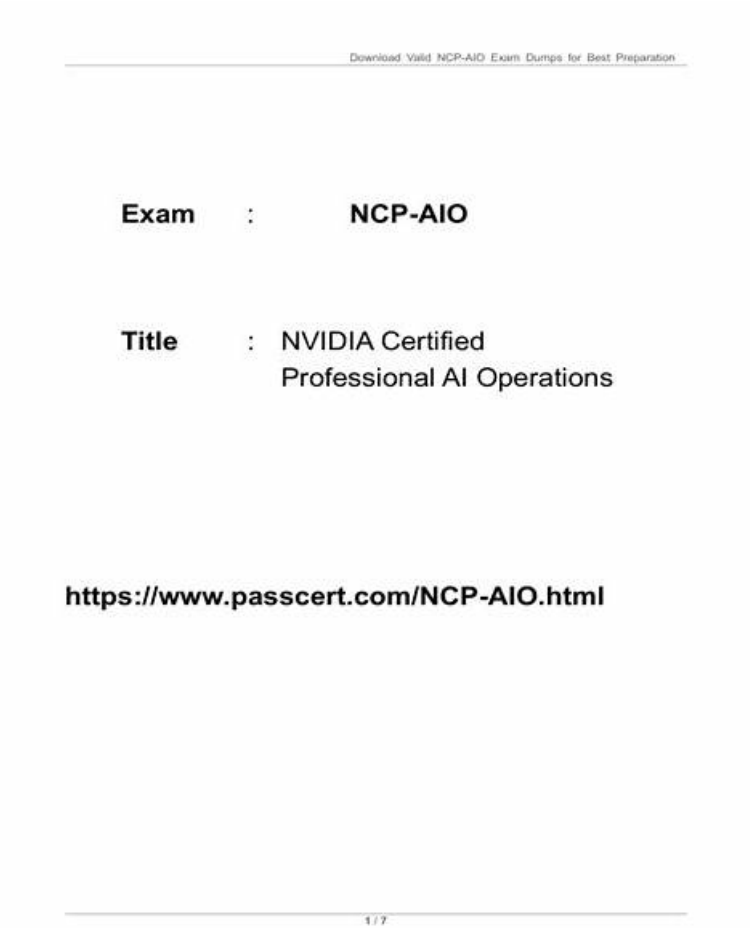

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NVIDIA AI Operations Sample Questions (Q43-Q48):

NEW QUESTION # 43

Consider this YAML snippet for deploying the NVIDIA device plugin. Which statement is true about the highlighted segment?

- A. It will make sure that only tolerations are set, but there's no affinity.
- B. This will ensure that the pod is only deployed on the node with certain taints, but with no other scheduling requirements
- C. It's a deprecated way of defining affinities. Consider using nodeAffinity instead.
- D. It will make sure that the device plugin gets deployed on nodes with 'accelerator: nvidia-tesla-t4' label
- E. It will make sure that the node affinity is ignored during scheduling.

Answer: D

Explanation:
The 'nodeselector' is used to target the deployment to nodes with label 'accelerator: nvidia-tesla-t4'. "nodeAffinity' is a more advanced way of doing this and is recommended, but in the absence of explicit nodeAffinity, nodeSelector is sufficient.

NEW QUESTION # 44
You have a Docker container running a CUDA application. You notice that the container takes a long time to start, specifically when initializing the CUDA context. How can you troubleshoot and potentially improve the startup time?

- A. Use the NVIDIA CUDA Cache. Set the environment variable to a persistent volume to cache compiled CUDA kernels across container restarts.
- B. Pre-initialize CUDA in the background. Launch a background process to initialize the CUDA context before the main application starts.
- C. Use a lighter base image. A smaller image will generally have a quicker startup time.
- D. Use lazy loading techniques in your application to delay the initialization of CUDA-dependent modules until they are actually needed.
- E. Reduce the number of CUDA devices visible to the container using the environment variable to only expose necessary GPUs.

Answer: A,B,D,E

Explanation:
CUDA context creation is time-consuming. CUDA cache (A) speeds up subsequent startups. Limiting visible devices (B) reduces the initialization overhead. Pre-initializing CUDA (D) amortizes the cost. Lazy loading (E) avoids unnecessary initializations. Using a lighter base image may help, but not as directly as the other options.

NEW QUESTION # 45
You are tasked with integrating BCM's monitoring data with an existing enterprise monitoring system (e.g., Splunk, ELK stack). What is the MOST efficient way to export BCM's metrics and logs for ingestion into these systems?

- A. Use a syslog server to forward BCM's logs to the enterprise monitoring system.
- B. Develop a custom script to periodically query the BCM API and extract metrics and logs.
- C. Configure BCM to export metrics in Prometheus format and use a Prometheus exporter to forward the data to the enterprise monitoring system.
- D. Manually copy the BCM log files to the enterprise monitoring system's log directory.
- E. Directly connect the enterprise monitoring system's agent to the BCM database.

Answer: A,C

Explanation:
Configuring BCM to export metrics in Prometheus format and using a Prometheus exporter is a standard and efficient way to integrate with monitoring systems that support Prometheus data. Using syslog server for logs ensures that the logs are forwarded and aggregated, thus integrating with existing enterprise monitoring system easily. Developing a custom script is more complex and less maintainable. Manually copying log files is not scalable. Connecting the monitoring system directly to the BCM database poses security risks and is not recommended.

NEW QUESTION # 46
Your organization is deploying an AI workload that requires high-throughput access to shared storage across multiple servers. The workload involves both training and inference tasks that need fast read and write speeds.

Which storage architecture would best support this AI workload?

- A. Prioritize write performance over read performance since training tasks dominate AI workflows.
- B. Use SSD-based shared storage systems to save costs while scaling up storage capacity.
- C. A high-performance shared storage system that supports both high read and write IO performance.
- D. Use local storage on each server to minimize network traffic between nodes.

Answer: C

Explanation:
Comprehensive and Detailed Explanation From Exact Extract:
For AI workloads involving both training and inference across multiple servers, ahigh-performance shared storage systemthat supports both high read and write I/O performance is essential. This ensures fast data access and efficient coordination between distributed compute nodes, preventing bottlenecks in data throughput. Local storage may minimize network traffic but lacks the necessary data sharing and coordination. Prioritizing only write performance neglects inference workload needs, and cost-saving SSD options might not deliver the required performance at scale. Hence, option C is the best choice for balanced, high-throughput AI workloads.

NEW QUESTION # 47
You are deploying a DOCA application that needs to interact with the host operating system for certain tasks. What are the potential challenges and solutions for achieving this interaction securely and efficiently?

- A. Solutions: Direct Memory Access on non secured memory for performance
- B. Challenges: Kernel module compatibility issues and potential conflicts with host drivers. Solutions: Using standard Linux APIs whenever possible, avoiding direct kernel module modifications, and testing thoroughly for compatibility.
- C. Challenges: Limited direct access to host resources, security concerns, and potential performance overhead. Solutions: Using DOCA Comm Channel for control message exchange, utilizing shared memory for data transfer, and employing secure APIs for host interaction.
- D. Challenges: Difficulty in debugging and troubleshooting issues across the host-DPU boundary. Solutions: Using comprehensive logging and tracing mechanisms, implementing remote debugging tools, and establishing clear communication channels between the host and DPU components.
- E. Challenges: Resource contention between the host and DPU applications. Solutions: Using proper resource allocation and prioritization mechanisms, such as cgroups and QOS policies, to prevent resource starvation.

Answer: B,C,D,E

Explanation:
Interacting with the host OS poses several challenges, including limited access, security concerns, and potential conflicts. The solutions involve using secure communication channels, standard APIs, comprehensive debugging mechanisms, and resource allocation policies. Direct Memory access on non-secured memory is not a solution for secure and efficient communication.

NEW QUESTION # 48
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