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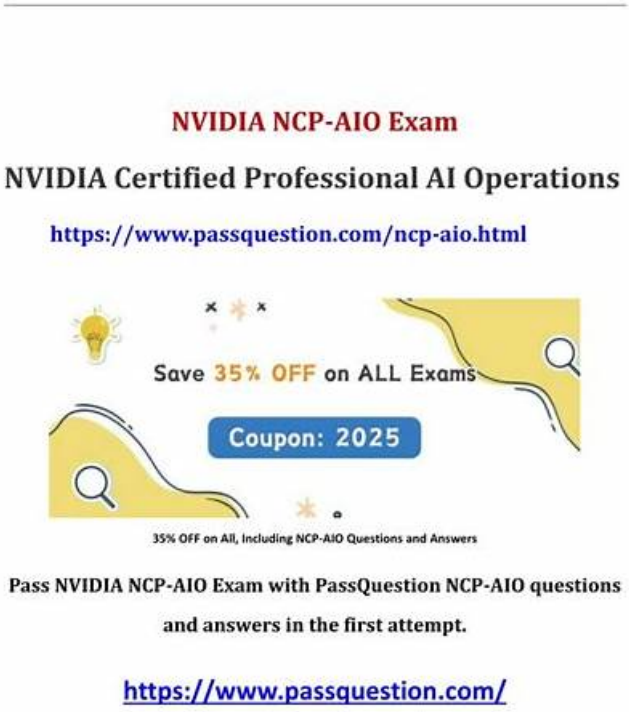

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NVIDIA AI Operations Sample Questions (Q26-Q31):

NEW QUESTION # 26
You're configuring MIG on an NVIDIAA100 for a mixed AI/HPC environment. One application requires high memory bandwidth, and the other requires high compute throughput. Which MIG instance configuration would optimally balance these requirements?

- A. Create one large MIG instance for the high-memory application and a smaller instance for the high-compute application.
- B. Create two identical MIG instances with equal memory and compute resources.
- C. Create a single MIG instance and dynamically allocate resources between the two applications.
- D. Create MIG instances with sizes tailored to the applications' specific memory and compute needs, allocating the necessary resources without over-provisioning.
- E. Disable MIG and allocate the entire GPU to the application with higher priority.

Answer: D

Explanation:
Option C is the most flexible and efficient approach. By tailoring MIG instance sizes to each application's specific needs, you can ensure that resources are allocated efficiently, and the overall performance is optimized. Other options may not fully utilize the GPU or may lead to resource contention.

NEW QUESTION # 27
Consider an HPC application heavily reliant on CODA. You plan to leverage MIG to optimize GPU resource allocation within your cluster.
Which configuration approach would BEST ensure the HPC application benefits from high GPU compute capability while coexisting with other workloads?

- A. Create multiple small MIG instances and distribute the HPC workload across them.
- B. Configure all MIG instances with equal memory and compute allocation to provide a fair distribution of resources.
- C. Create MIG instances tailored to the HPC application's specific memory and compute needs, allocating the necessary resources without over-provisioning. Utilize the remaining resources for other workloads.
- D. Create a single, large MIG instance dedicated solely to the HPC application, maximizing its compute capacity.
- E. Disable MIG and allow the HPC application to utilize the entire GPU for maximum performance.

Answer: C

Explanation:
Tailoring MIG instances to the HPC application's specific requirements ensures efficient resource allocation and allows other workloads to utilize the remaining GPU capacity. D is not ideal for concurrent workloads. A and E don't account for specific workload requirements.

NEW QUESTION # 28
A user complains that their AI training job is running very slowly. Upon investigation, you discover that the pod is scheduled onto a node with a slow network connection, causing significant delays in data transfer. How would you ensure that future similar jobs are scheduled onto nodes with faster network connections?

- A. Use inter-pod affinity to force the job onto nodes already running network-intensive workloads.
- B. Increase the resource requests for the pod to trigger rescheduling.
- C. Implement node affinity rules based on network bandwidth labels, and label the nodes appropriately.
- D. Configure the kubelet to prioritize pods based on their network usage.
- E. Manually reschedule the pod onto a node with a faster network.

Answer: C

Explanation:
The correct answer is B. By labeling nodes with their network bandwidth capabilities (e.g., 'network-bandwidth: 100GbpS), you can then use node affinity rules in your pod specifications to ensure that jobs requiring high bandwidth are scheduled onto suitable nodes. Option A is a temporary fix. Options C and D do not address the core issue of network bandwidth. Option E would exacerbate the problem by concentrating network-intensive workloads on the same nodes.

NEW QUESTION # 29
You are setting up a data center for AI research that requires both high-performance computing (HPC) for model training and interactive data science workstations. How would you optimally partition your GPU resources using NVIDIA vGPU?

- A. Oversubscribe all GPUs to maximize VM density, even if it impacts performance.
- B. Allocate entire physical GPUs to HPC nodes and use CPU-based processing for data science workstations.
- C. Use a fixed vGPU profile (e.g., 1/4 GPU) for all VMs, regardless of workload.
- D. Dedicate all GPUs to HPC tasks, as training is the most resource-intensive activity.
- E. Profile the resource utilization of both HPC and workstation workloads and dynamically adjust vGPU profiles to optimize performance and resource allocation.

Answer: E

Explanation:
Profiling and dynamic adjustment of vGPU profiles are crucial for optimal resource allocation. Different workloads have different resource needs. HPC benefits from large slices, while interactive workstations can function well with smaller slices. A fixed profile will likely lead to underutilization or performance bottlenecks. Oversubscribing without careful monitoring can lead to severe performance degradation. Limiting data scientists to CPU-based processing wastes valuable GPU resources.

NEW QUESTION # 30
Your company wants to setup a system to do rolling updates on NVIDIA drivers of the nodes running Kubernetes. The updates must take place with as little as downtime as possible, and not interrupt the workloads running on non-updated nodes. Which approach would be preferred?

- A. Shutting down the Kubernetes Cluster to avoid downtime and update the drivers
- B. Manual update node by node.
- C. Using DaemonSet and nodeAffinity/tolerations to ensure drivers can be rolled out with no disruption on all nodes. cordon nodes, drain, update, uncordon.
- D. Using Ansible playbooks and running the updates in parallel across all nodes.
- E. Run 'apt update with highest priority during times of least demand.

Answer: C

Explanation:
Manual update node by node is going to be time consuming and error prone. Using Ansible playbooks is an option, however, DaemonSets are designed for this use case. Using DaemonSets coupled with nodeAffinity ensures that it has to roll out drivers on all the nodes with no downtime. Shuttign down the Kubernetes Cluster is not a realistic option and simply running 'apt update' will not allow any updates to take place with highest priority.

NEW QUESTION # 31
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