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價值：創值、創新、創業

照顧模式：機構式照顧、社區式照顧、居家式照顧

產業鏈結：醫療、社區金融、住宅、類製產業鏈

- 聯絡單位 | 國立暨南國際大學NPO及LTC辦公室
- 報名時間 | 114年12月中至115年3月4日下午三點 (詳細日期請注意本校公告)
- 符合同等學力認定標準第7條之招生名額至多5名
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- 詳細資訊請見內頁或上網
<https://www.doc.ncnu.edu.tw/npo/index.php/Home>
- 聯絡方式 | 電話：049-2910960 分機：2911 彭小姐 / 2922 許小姐
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NVIDIA AI Operations Sample Questions (Q49-Q54):

NEW QUESTION # 49

Your team is developing a multi-tenant AI platform on Kubernetes using NVIDIA GPUs provisioned through BCM. Each tenant needs guaranteed access to a fraction of the GPU resources. Which of the following Kubernetes features, in combination with NVIDIA's tools, would be BEST suited for achieving GPU resource isolation and fair sharing among tenants?

- A. Node Affinity combined with Taints and Tolerations to dedicate specific nodes to certain tenants
- B. Horizontal Pod Autoscaling (HPA) combined with the NVIDIA GPU metrics adapter to automatically scale tenant workloads based on GPU utilization.
- C. Resource Quotas and Limit Ranges combined with the NVIDIA Device Plugin's fractional GPU allocation feature (MIG).
- D. Pod Priority and Preemption combined with Resource Quotas to prioritize critical tenant workloads during resource contention.
- E. Network Policies combined with Kubernetes Namespaces to isolate tenant workloads and prevent cross-tenant communication.

Answer: C

Explanation:

Resource Quotas and Limit Ranges enforce resource usage limits on a per-namespace (tenant) basis. The NVIDIA Device Plugin's Multi-Instance GPU (MIG) feature allows you to partition a single physical GPU into multiple smaller virtual GPUs, enabling fine-grained allocation of GPU resources to tenants. Using them in combination allows for both restriction and isolation on the GPU itself. While network policies and pod priority are useful for overall security and resource management, they don't directly address GPU isolation. HPA is about scaling, not isolation. Node Affinity with Taints/Tolerations helps with node dedication, but alone does not provide GPU isolation within a node.

NEW QUESTION # 50

You are managing a large Slurm cluster used for AI research. You notice that some users are submitting jobs that request excessive amounts of memory, even though their applications don't actually need it, leading to inefficient resource utilization. What steps can you take to address this issue and encourage users to request more appropriate memory resources?

- A. Adjust the scheduler's priority algorithm to penalize jobs that request excessive memory.
- B. Configure Slurm's accounting system to track memory usage and provide reports to users, highlighting inefficient memory requests.
- C. Educate users on how to accurately estimate their memory requirements and provide tools for monitoring memory usage.
- D. All of the above
- E. Implement strict memory limits per job and automatically kill jobs that exceed those limits.

Answer: D

Explanation:

A multi-faceted approach is needed. Enforcing limits (A) prevents waste, education (B) helps users improve requests, accounting (C) provides feedback, and adjusting priority (D) discourages wasteful requests. A, B, C, D combined provide the best approach.

NEW QUESTION # 51

You're implementing a preemption policy in your Slurm cluster to allow higher-priority jobs to interrupt lower-priority jobs. Which Slurm configuration parameters are MOST relevant to configure preemption? (Select TWO)

- A. PreemptMode
- B. FastSchedule
- C. SchedulerRootFilter
- D. AccountingStorageType
- E. PreemptType

Answer: A,E

Explanation:

'PreemptMode' defines when preemption is triggered (e.g., 'OFF', 'CANCEL', 'QUEUE'). 'preemptType' determines which jobs are eligible for preemption (e.g., 'priority', 'qos').

NEW QUESTION # 52

An AI data center is planning to use NVMe over Fabrics (NVMe-oF) for its storage infrastructure. What are the primary advantages of NVMe-oF compared to traditional storage protocols like iSCSI or Fibre Channel?

- A. Simplified storage management and configuration.
- **B. Lower latency and higher throughput for accessing NVMe SSDs over a network.**
- C. Native support for object storage interfaces.
- D. Reduced cost due to the use of commodity hardware.
- E. Improved data security through built-in encryption.

Answer: B

Explanation:

NVMe-oF provides lower latency and higher throughput compared to iSCSI or Fibre Channel because it's designed to leverage the performance of NVMe SSDs over a network fabric. While NVMe-oF can potentially simplify management and reduce costs in some cases, its primary advantage is performance.

NEW QUESTION # 53

You're running a Docker container with a deep learning model. While the model trains successfully, you observe that the GPU utilization fluctuates significantly, and the training process is slower than expected. What could be the cause and how would you address it?

- A. The Docker container is not receiving enough CPU resources. Increase the CPU shares or CPU quota allocated to the container.
- **B. The data loading pipeline is a bottleneck. Optimize data loading by using asynchronous data loaders and prefetching data to the GPU.**
- **C. There is CPU contention. Use 'taskset' to bind the data loading process to specific CPU cores to reduce CPU switching overhead.**
- **D. The model is not large enough to saturate the GPU. Consider using a larger model or increasing the complexity of the computations.**
- **E. The batch size is too small. Increase the batch size to improve GPU utilization, but be mindful of GPU memory limitations.**

Answer: B,C,D,E

Explanation:

Fluctuating GPU utilization suggests that the GPU is not being consistently fed with data or computations. Data loading bottlenecks (A), small batch sizes (B), or an under-utilizing model (C) can all cause this. CPU contention (D) may be the culprit.

NEW QUESTION # 54

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