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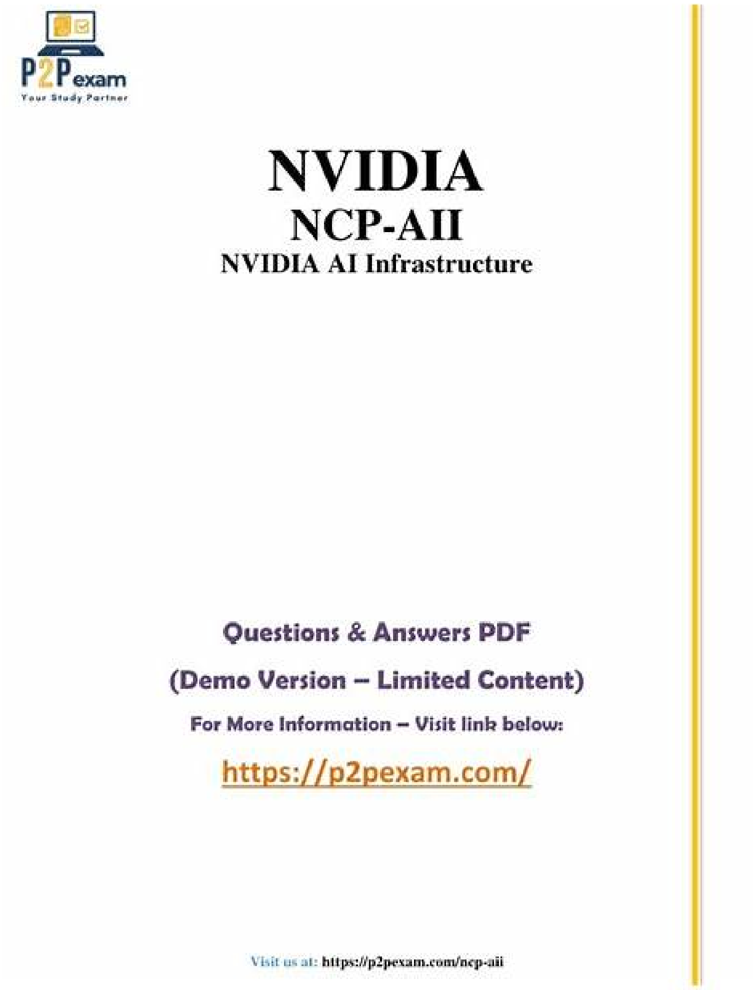

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NVIDIA AI Infrastructure Sample Questions (Q106-Q111):

NEW QUESTION # 106
A large language model (LLM) training job is running across multiple NVIDIAAI 00 GPUs in a cluster. You observe that the GPUs within a single server are communicating efficiently via NVLink, but the inter-server communication over Ethernet is becoming a bottleneck. Which of the following strategies, focusing on cable and transceiver selection, would MOST effectively address this inter-server communication bottleneck? (Choose TWO)

- A. Upgrade inter-server connections to the highest available Ethernet speed (e.g., from 100GbE to 400GbE) using appropriate transceivers and fiber optic cables.
- B. Replace all existing transceivers with Active Optical Cables (AOCs).
- C. Reduce the batch size of the LLM training job.
- D. Replace existing Cat6 Ethernet cables with Cat8 cables.
- E. Implement InfiniBand as the interconnect technology for inter-server communication, utilizing appropriate InfiniBand cables and transceivers.

Answer: A,E

Explanation:
Upgrading to higher Ethernet speeds (e.g., 400GbE) with appropriate transceivers and fiber significantly increases bandwidth for inter-server communication. Implementing InfiniBand, a technology designed for high-performance computing interconnects, offers even better performance than Ethernet. Cat8 cables improve Ethernet signal quality but don't fundamentally increase bandwidth. Reducing batch size reduces the amount of data transferred but might impact training convergence. While AOCs can improve signal quality, they don't address the underlying bandwidth limitations as effectively as faster Ethernet or InfiniBand.

NEW QUESTION # 107
You are tasked with installing the NGC CLI on a host that does not have direct internet access. You have downloaded the NGC CLI package to a local repository. Which of the following steps are required to successfully install and configure the NGC CLI in this offline environment?

- A. Transfer the NGC CLI package to the host and install it using 'pip install .whl'.
- B. Configure the NGC CLI to point to your local package repository by setting the environment variable.
- C. Manually download and install all dependencies of the NGC CLI package using 'pip install --no-index --find-links=/path/to/dependencies .whl'.
- D. Run 'ngc config set' to configure the API key, pointing to a local configuration file.
- E. Only copying the whl file is sufficient, NGC CLI dependencies are always local

Answer: A,B,C,D

Explanation:
In an offline environment, you need to install the package locally (A), configure the CLI to know where to find the package (B), manually install dependencies (C), and configure the API key (D). Option E is wrong because dependencies must be handled manually in the offline environment.

NEW QUESTION # 108
Consider a scenario where you want to reset your NVIDIAA100 GPU back to a non-MIG mode state after having previously configured MIG. Which of the following steps are required?

- A. Run 'nvidia-smi -set-mig-mode=disable -i O' and then reboot the system.
- B. Run 'nvidia-smi -set-mig-mode=disable -i O' followed by 'nvidia-smi -reset-default-mig-mode -i
- C. Run 'nvidia-smi -set-mig-mode=disable -i , then power off the system and physically remove and re-install the GPU.
- D. Run 'nvidia-smi -destroy-mig-config -i 0' , then run 'nvidia-smi -set-mig-mode=disable -i 0', and finally reboot.
- E. Run 'nvidia-smi -set-mig-mode=disable -i O', then run 'nvidia-smi -i 0 -migrr 0' , and finally reboot.

Answer: A

Explanation:
To reset the GPU to non-MIG mode, the command 'nvidia-smi -set-mig-mode=disable -i (Y must be executed, followed by a system reboot. This ensures that the changes are applied during the next boot process. Destroying MIG config is not required to just

disable the MIG mode, neither is physically reinstalling the GPU.

NEW QUESTION # 109

You have an NVIDIAAIOO GPU and need to configure it for optimal performance across two distinct AI workloads: a large language model (LLM) training job and a computer vision inference service. The LLM benefits from maximum memory bandwidth, while the inference service requires low latency and high throughput. Which MIG configuration would best suit this scenario?

- A. Create one log. 120gb instance for the LLM and one 4g.40gb instance for inference.
- B. Create one 14g.160gb MIG instance for the LLM and use CUDA MPS to multiplex the inference service.
- C. Create a single full-GPU instance and use Kubernetes resource quotas to isolate the workloads.
- D. Create two 7g.80gb MIG instances, one for each workload.
- E. Utilize Time-Slicing on a single full-GPU instance, allocating specific time slots to each workload using NVIDIA Vgpu technology

Answer: A

Explanation:
Creating a log. 120gb instance for the memory-intensive LLM and a 4g.40gb instance for the inference service provides dedicated resources that cater to the specific needs of each workload, without the overhead or limitations of CUDA MPS or Kubernetes resource quotas. Option A is too conservative, potentially limiting the LLM performance. Option B sacrifices dedicated resources for inference, which may hurt latency. Option C does not leverage MIG and does not guarantee resource isolation and performance consistency. Option E introduces complexities associated with Time-Slicing and might not be suitable for real-time processing.

NEW QUESTION # 110

You are designing a storage system using BeeGFS for an AI cluster. The cluster consists of 10 client nodes, each with 2 NVIDIAAIOO GPUs, and 4 storage servers. Each storage server has 10 NVMe SSDs. The training dataset is 100TB. You want to ensure high availability and performance. Which of the following BeeGFS configurations would be MOST appropriate?

- A. Two MDS servers in a high-availability configuration and 40 OSTs (one per NVMe SSD).
- B. 10 MDS server (one per client nodes) and a single OST.
- C. Four MDS servers (one per storage server) and 40 OSTs (one per NVMe SSD).
- D. One MDS server and 10 OSTs, splitting each NVMe SSD into smaller virtual OSTs.
- E. A single metadata server (MDS) and four storage targets (OSTs), each spanning all 10 NVMe SSDs on a storage server.

Answer: A

Explanation:
Using two MDS servers in a high-availability configuration ensures that metadata operations remain available even if one MDS server fails. Having 40 OSTs (one per NVMe SSD) maximizes I/O parallelism and throughput. A single MDS server can become a bottleneck. Splitting NVMe SSDs into smaller virtual OSTs can add overhead. 10 MDS servers will add unnecessary overhead and complexity. Single OST will become bottleneck.

NEW QUESTION # 111

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