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NVIDIA NCP-AIO Exam Syllabus Topics:

Topic	Details
Topic 1	• Administration: This section of the exam measures the skills of system administrators and covers essential tasks in managing AI workloads within data centers. Candidates are expected to understand fleet command, Slurm cluster management, and overall data center architecture specific to AI environments. It also includes knowledge of Base Command Manager (BCM), cluster provisioning, Run.ai administration, and configuration of Multi-Instance GPU (MIG) for both AI and high-performance computing applications.
Topic 2	• Installation and Deployment: This section of the exam measures the skills of system administrators and addresses core practices for installing and deploying infrastructure. Candidates are tested on installing and configuring Base Command Manager, initializing Kubernetes on NVIDIA hosts, and deploying containers from NVIDIA NGC as well as cloud VMI containers. The section also covers understanding storage requirements in AI data centers and deploying DOCA services on DPU Arm processors, ensuring robust setup of AI-driven environments.
Topic 3	• Workload Management: This section of the exam measures the skills of AI infrastructure engineers and focuses on managing workloads effectively in AI environments. It evaluates the ability to administer Kubernetes clusters, maintain workload efficiency, and apply system management tools to troubleshoot operational issues. Emphasis is placed on ensuring that workloads run smoothly across different environments in alignment with NVIDIA technologies.

Topic 4	• Troubleshooting and Optimization: NVIThis section of the exam measures the skills of AI infrastructure engineers and focuses on diagnosing and resolving technical issues that arise in advanced AI systems. Topics include troubleshooting Docker, the Fabric Manager service for NVIDIA NVlink and NVSwitch systems, Base Command Manager, and Magnum IO components. Candidates must also demonstrate the ability to identify and solve storage performance issues, ensuring optimized performance across AI workloads.

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NVIDIA AI Operations Sample Questions (Q19-Q24):

NEW QUESTION # 19
Which of the following are benefits of using NVIDIA Fleet Command (Select all that apply)?

- A. Automatic GPU driver updates for non-NVIDIA GPUs.
- B. Centralized monitoring and management of edge devices.
- C. Automated over-the-air (OTA) updates for AI models and system software.
- D. Enhanced security and access control for AI deployments.
- E. Simplified AI model deployment and management at the edge.

Answer: B,C,D,E

Explanation:
Fleet Command provides simplified deployment (A), centralized monitoring (B), OTA updates (C), and enhanced security (D). It does not provide driver updates for non-NVIDIA GPUs (E).

NEW QUESTION # 20
How can you ensure that all newly provisioned nodes in your BCM cluster automatically have the necessary NVIDIA drivers and container runtime installed?

- A. Use a Kubernetes DaemonSet to install the drivers and runtime on each node after it joins the cluster.
- B. Manually install the drivers and runtime on each node after provisioning.
- C. Configure BCM to run a post-provisioning script that installs the drivers and runtime.
- D. Rely on the NVIDIA automatic driver installation tool after the OS is booted.
- E. Create a custom OS image with the drivers and runtime pre-installed and use that image for provisioning.

Answer: A,E

Explanation:
A custom OS image ensures drivers and runtime are present from the start. A post-provisioning script allows automated installation. Manual installation is not scalable. A DaemonSet installs software after the node joins the cluster, but BCM configuration happens at provisioning. The NVIDIA automatic driver installation tool might not be compatible with all BCM configurations.

NEW QUESTION # 21
You are tasked with optimizing the performance of a large-scale graph analytics application that uses NVSHMEM for distributed shared memory. The application spends a significant amount of time in remote memory accesses. Which of the following strategies would be MOST effective in reducing the overhead of these remote accesses?

- A. Switch to a CPU-based implementation.
- B. Increase the number of GPUs per node.
- C. Use NVSHMEM collectives for bulk data transfers.
- D. Reduce the size of the graph.
- E. Disable CUDA-Aware MPI support

Answer: C

Explanation:
NVSHMEM collectives provide optimized routines for performing operations on shared memory across multiple processing elements (PEs). Using collectives for bulk data transfers, such as 'nvshmem_putmem' or 'nvshmem_getmem', is significantly more efficient than performing many individual small remote memory accesses. Increasing the number of GPUs per node might help with local computations but doesn't directly address remote access overhead. Reducing the graph size is not always feasible. A CPU-based implementation would likely be slower. Disabling CUDA-Aware MPI would degrade network communication speed, so not a good option.

NEW QUESTION # 22
You are designing storage for an AI data center focused on training large language models (LLMs). You need to optimize for both capacity and speed. Which storage technology is most suitable for the training data itself, considering the need for high throughput and parallel access?

- A. Tape storage
- B. Traditional Hard Disk Drives (HDDs) in a RAID 5 configuration
- C. Network File System (NFS) over a 1 Gbps network
- D. Object storage (e.g., AWS S3, Ceph) accessed over the internet
- E. NVMe-based parallel file system (e.g., BeeGFS, Lustre) directly attached to compute nodes

Answer: E

Explanation:
NVMe-based parallel file systems offer the highest throughput and lowest latency, crucial for feeding data to GPUs during LLM training. HDDs and NFS have significant performance bottlenecks, object storage is not optimized for the access patterns of training, and tape is for archival, not active use.

NEW QUESTION # 23
Consider the following Kubernetes manifest snippet:

- A. Specifies that the container requires one NVIDIA GPU.
- B. Requests one CPU core for the container.
- C. Limits the container to using only 1024MiB of GPU memory.
- D. Allocates 1024milliCPU (0.1 Core) for the container
- E. Sets the container's memory limit to 2048MiB.

Answer: A,B,E

Explanation:
The manifest requests 1 NVIDIA GPU via 'nvidia.com/gpu: 1', requests one CPU core, and sets the memory limit to 2048MiB. While the CPU request could also be viewed as allocating CPU time slices, setting the millicpu limit is more precise for restricting CPU usage.

NEW QUESTION # 24
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