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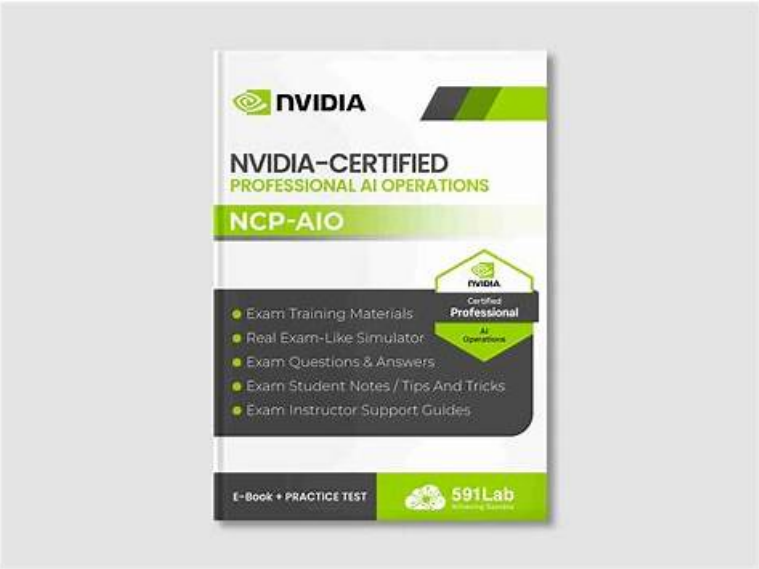

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NVIDIA NCP-AIO Exam Syllabus Topics:

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	• 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 3	• 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 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 (Q39-Q44):

NEW QUESTION # 39
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. Disable MIG and allocate the entire GPU to the application with higher priority.
- B. Create a single MIG instance and dynamically allocate resources between the two applications.
- C. Create one large MIG instance for the high-memory application and a smaller instance for the high-compute application.
- D. Create two identical MIG instances with equal memory and compute resources.
- E. Create MIG instances with sizes tailored to the applications' specific memory and compute needs, allocating the necessary resources without over-provisioning.

Answer: E

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 # 40
You are an administrator managing a large-scale Kubernetes-based GPU cluster using Run:AI.
To automate repetitive administrative tasks and efficiently manage resources across multiple nodes, which of the following is essential when using the Run:AI Administrator CLI for environments where automation or scripting is required?

- A. Ensure that the Kubernetes configuration file is set up with cluster administrative rights before using the CLI.
- B. Use the CLI to manually allocate specific GPUs to individual jobs for better resource management.
- C. Install the CLI on Windows machines to take advantage of its scripting capabilities.
- D. Use the runai-adm command to directly update Kubernetes nodes without requiring kubectl.

Answer: A

Explanation:
Comprehensive and Detailed Explanation From Exact Extract:
When automating tasks with the Run:AI Administrator CLI, it is essential to ensure that theKubernetes configuration file (kubeconfig)is correctly set up with cluster administrative rights. This enables the CLI to interact programmatically with the Kubernetes API for managing nodes, resources, and workloads efficiently.
Without proper administrative permissions in the kubeconfig, automated operations will fail due to insufficient rights.
Manual GPU allocation is typically handled by scheduling policies rather than CLI manual assignments. The CLI does not replacekubectlcommands entirely, and installation on Windows is not a critical requirement.
The Run:AI Administrator CLI requires a Kubernetes configuration file with cluster-administrative rights in order to perform

automation or scripting tasks across the cluster. Without those rights, the CLI cannot manage nodes or resources programmatically.

NEW QUESTION # 41
When installing Kubernetes using BCM on NVIDIA hosts, what is the purpose of the 'nvidia-container-toolkit' and how does it interact with the container runtime (e.g., Docker or containerd)?

- A. It's a Kubernetes operator that automatically installs and manages the NVIDIA driver on worker nodes. It replaces the need for manual driver installation.
- B. It's a tool for monitoring GPU utilization within containers. It directly queries the NVIDIA driver for GPU metrics and exposes them via a REST API. It does not interact directly with the container runtime.
- C. It handles network configuration for containers running on NVIDIA hosts. It configures the container network interface (CNI) to optimize network performance for GPU-accelerated workloads.
- D. It's a command-line tool for building and deploying GPU-enabled container images. It automates the process of adding the NVIDIA driver to container images.
- E. It's a set of libraries and utilities that allow the container runtime to isolate and expose GPU devices to containers. It intercepts container creation requests and configures the container to access the GPU.

Answer: E

Explanation:
The 'nvidia-container-toolkit' is the bridge between the container runtime (Docker, containerd) and the NVIDIA driver. It allows the container runtime to correctly configure containers to use the GPUs on the host. It achieves this by intercepting container creation requests and modifying the container's configuration to enable GPU access.

NEW QUESTION # 42
You are using NVIDIA MPS (Multi-Process Service) to allow multiple CUDA applications to share a single GPU. One of the applications is consistently crashing. How can you isolate the faulty application using MPS?

- A. Analyze the system logs for error messages associated with the application's process ID (PID).
- B. Run each application with a reduced number of threads to minimize potential conflicts.
- C. Disable MPS and run each application in isolation to identify the crashing application.
- D. Use 'nvidia-smi' to monitor the GPU's utilization and identify the application with the highest memory usage.
- E. Restart the entire server to clear the GPU memory.

Answer: A,C

Explanation:
The most direct approach is to disable MPS and run each application independently to pinpoint the source of the crashes. Examining the system logs for error messages linked to specific PIDs helps identify the failing process. Monitoring GPU utilization (B) might provide hints, but it doesn't directly isolate the faulty application. Reducing threads (D) might mask the issue, but it doesn't solve it. Restarting the server (E) is a temporary solution and doesn't address the root cause.

NEW QUESTION # 43
What should an administrator check if GPU-to-GPU communication is slow in a distributed system using Magnum IO?

- A. Limit the number of GPUs used in the system to reduce congestion.
- B. Verify the configuration of NCCL or NVSHMEM.
- C. Disable InfiniBand to reduce network complexity.
- D. Increase the system's RAM capacity to improve communication speed.

Answer: B

Explanation:
Comprehensive and Detailed Explanation From Exact Extract:
Slow GPU-to-GPU communication in distributed systems often relates to theconfiguration of communication libraries such as NCCL (NVIDIA Collective Communications Library) or NVSHMEM.
Ensuring these libraries are properly configured and optimized is critical for efficient GPU communication.
Limiting GPUs or increasing RAM does not directly improve communication speed, and disabling InfiniBand would degrade

performance.

NEW QUESTION # 44

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