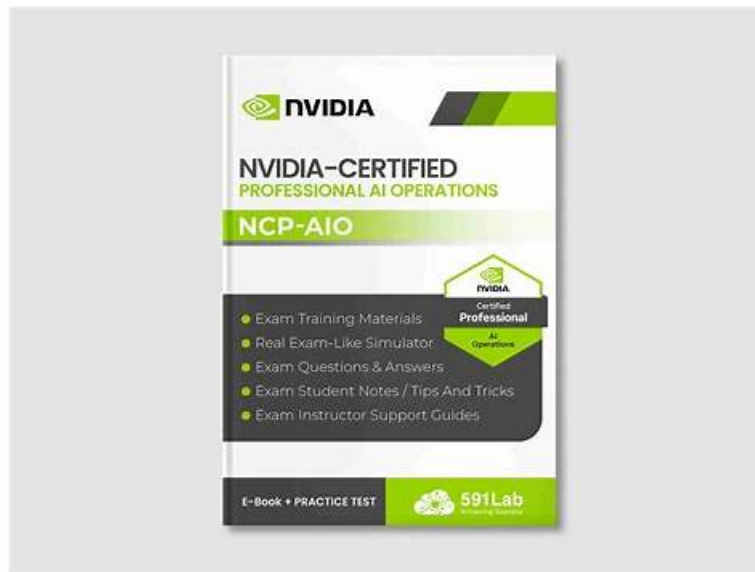# Proven and Quick Way to Pass the NVIDIA NCP-AIO Exam

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NVIDIA AI Operations Sample Questions (Q47-Q52):

NEW QUESTION # 47
You are managing a Slurm cluster with multiple GPU nodes, each equipped with different types of GPUs.
Some jobs are being allocated GPUs that should be reserved for other purposes, such as display rendering.
How would you ensure that only the intended GPUs are allocated to jobs?

- A. Verify that the GPUs are correctly listed in both gres.conf and slurm.conf, and ensure that unconfigured GPUs are excluded.
- B. Reinstall the NVIDIA drivers to ensure proper GPU detection by Slurm.
- C. Increase the number of GPUs requested in the job script to avoid using unconfigured GPUs.
- D. Use nvidia-smi to manually assign GPUs to each job before submission.

Answer: A

Explanation:
Comprehensive and Detailed Explanation From Exact Extract:
In Slurm GPU resource management, the gres.conf file defines the available GPUs (generic resources) per node, while slurm.conf configures the cluster-wide GPU scheduling policies. To prevent jobs from using GPUs reserved for other purposes (e.g., display rendering GPUs), administrators must ensure that only the GPUs intended for compute workloads are listed in these configuration files.
* Properly configuring gres.conf allows Slurm to recognize and expose only those GPUs meant for jobs.
* slurm.conf must be aligned to exclude or restrict unconfigured GPUs.
* Manual GPU assignment using nvidia-smi is not scalable or integrated with Slurm scheduling.
* Reinstalling drivers or increasing GPU requests does not solve resource exclusion.
Thus, the correct approach is to verify and configure GPU listings accurately in gres.conf and slurm.conf to restrict job allocations to intended GPUs.

NEW QUESTION # 48
Consider the following Dockerfile snippet:

- A. The container will have the NVIDIA drivers pre-installed.
- B. The container will automatically utilize all available GPUs without further configuration.
- C. This Dockerfile is incomplete and requires additional configuration to properly enable GPU access.
- D. The environment variable must be set externally to control GPU visibility.
- E. The NVIDIA Container Toolkit must be installed on the host to enable GPU access within the container.

Answer: C,E

Explanation:
C and E are correct. The Dockerfile, even with the base image, requires the NVIDIA Container Toolkit to be installed on the host to function. It also often needs explicit configuration for libraries and runtime execution to fully leverage the GPU. NVIDIA drivers are not included by default; the base image provides the foundation for them to be injected from the host. Option B is incorrect because further configurations such as resource limits and requests are needed. Option D can be helpful but is not mandatory.

NEW QUESTION # 49
You are using NVSHMEM to manage shared memory across multiple GPUs in a multi-node cluster. Your application is crashing with out- of-memory errors, even though the reported GPU memory usage is well below the total available. You have already confirmed sufficient physical RAM on all nodes. What is the MOST likely cause, related to NVSHMEM configuration, of these out-of-memory errors?

- A. The CUDA driver version is incompatible with NVSHMEM.
- B. 'CUDA_VISIBLE DEVICES is set incorrectly
- C. The NCCL library is not properly initialized.
- D. The InfiniBand drivers are outdated.
- E. The 'NVSHMEM SYMMETRIC SIZE environment variable is set too low.

Answer: E

Explanation:
The 'NVSHMEM SYMMETRIC SIZE environment variable defines the total amount of shared memory available to NVSHMEM across all nodes. If this value is too small, even if individual GPUs have sufficient memory, the overall NVSHMEM shared memory pool may be exhausted, leading to out-of-memory errors. CUDA driver incompatibility, NCCL issues, and outdated InfiniBand drivers could cause other problems, but they are less likely to directly cause out-of-memory errors when individual GPU usage is low . CUDA_VISIBLE_DEVICES may effect device enumeration and memory allocation, but is the master environment variable.

NEW QUESTION # 50
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. Install the CLI on Windows machines to take advantage of its scripting capabilities.
- B. Ensure that the Kubernetes configuration file is set up with cluster administrative rights before using the CLI.
- C. Use the CLI to manually allocate specific GPUs to individual jobs for better resource management.
- D. Use the runai-adm command to directly update Kubernetes nodes without requiring kubectl.

Answer: B

Explanation:
Comprehensive and Detailed Explanation From Exact Extract:
When automating tasks with the Run:AI Administrator CLI, it is essential to ensure that the Kubernetes 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 replace kubectl commands 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 # 51
You are developing a DOCA application that needs to handle network packets at line rate. Which of the following DOCA services would be most suitable for achieving this goal and why?

- A. DOCA RegEx: Offers regular expression matching for packet filtering but can introduce latency at high traffic rates.
- B. DOCA Telemetry: Designed for monitoring and collecting network statistics rather than packet processing.
- C. DOCA SPP: Provides support for scalable packet processing by managing packet buffers in user space but requires careful resource management.
- D. DOCA Flow: Allows defining complex flow rules and offloading packet processing to the DPU hardware, achieving high performance.
- E. DOCA DPI: Provides deep packet inspection capabilities for analyzing packet content but is not optimized for line-rate processing.

Answer: C,D

Explanation:
DOCA Flow is designed for high-performance packet processing and allows offloading flow rules to the DPU hardware. DOCA SPP also plays a crucial role in line-rate processing with efficient packet buffer management.

NEW QUESTION # 52
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