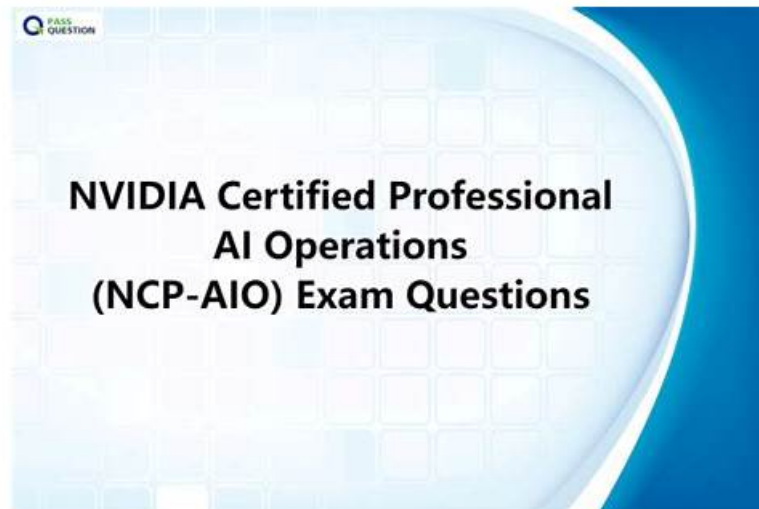# NVIDIA - Authoritative Reliable NCP-AIO Practice Materials

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NVIDIA NCP-AIO Exam Syllabus Topics:

Topic	Details
Topic 1	• 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 2	• 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.
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	• 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.

NVIDIA AI Operations Sample Questions (Q23-Q28):

NEW QUESTION # 23
Your Kubernetes cluster is running a mixture of AI training and inference workloads. You want to ensure that inference services have higher priority over training jobs during peak resource usage times.
How would you configure Kubernetes to prioritize inference workloads?

- A. Increase the number of replicas for inference services so they always have more resources than training jobs.
- B. Implement ResourceQuotas and PriorityClasses to assign higher priority and resource guarantees to inference workloads over training jobs.
- C. Set up a separate namespace for inference services and limit resource usage in other namespaces.
- D. Use Horizontal Pod Autoscaling (HPA) based on memory usage to scale up inference services during peak times.

Answer: B

Explanation:
Comprehensive and Detailed Explanation From Exact Extract:
To prioritize inference workloads over training jobs in Kubernetes, administrators should configurePriorityClassesandResourceQuotas. PriorityClasses allow assigning different priority levels to pods, ensuring that during resource contention, higher-priority pods (inference services) receive resources first.
ResourceQuotas limit the resource consumption per namespace or user, controlling overall usage and reserving capacity for critical workloads. This setup effectively manages resource allocation and guarantees performance for inference jobs during peak times.
* Increasing replicas or namespaces alone does not guarantee priority during contention.
* HPA scales based on metrics but does not manage priority or resource guarantees directly.

NEW QUESTION # 24
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. Use the runai-adm command to directly update Kubernetes nodes without requiring kubectl.
- 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. Install the CLI on Windows machines to take advantage of its scripting capabilities.

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 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 # 25

An administrator needs to submit a script named "my_script.sh" to Slurm and specify a custom output file named "output.txt" for storing the job's standard output and error.

Which 'sbatch' option should be used?

- A. =-output-output output.txt
- B. =-e output.txt
- C. =-o output.txt

Answer: C

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

The correctsbatchoption to specify a custom output file for both standard output and error is-o output.txt(or-- output=output.txt). This option directs Slurm to write the job's standard output and error streams to the specified file. The-eoption is for standard error only, and-output-outputis not a valid option.

NEW QUESTION # 26

You're tasked with implementing a secure and auditable deployment pipeline for AI models using Fleet Command. Which of the following methods BEST ensures that all model deployments are tracked and authorized?

- A. Using a third-party CI/CD tool integrated with Fleet Command.
- B. Relying on email notifications to track deployments.
- C. Manually documenting each deployment in a spreadsheet.
- D. Creating a custom script to log deployments to a local text file on the Fleet Command server.
- E. Leveraging Fleet Command's built-in deployment history and user access controls.

Answer: E

Explanation:

Fleet Command's built-in features offer the most robust and secure way to track deployments and manage user access. Manual spreadsheets (A) are error-prone. Custom scripts (C) can be less secure and harder to maintain. Email notifications (D) lack auditability. While CI/CD tools (E) can be integrated, leveraging Fleet Command's native capabilities is the most straightforward and secure option.

NEW QUESTION # 27

Consider the following Dockerfile snippet:

- A. This Dockerfile is incomplete and requires additional configuration to properly enable GPU access.
- B. The container will have the NVIDIA drivers pre-installed.
- C. The container will automatically utilize all available GPUs without further configuration.
- 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: A,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 # 28

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