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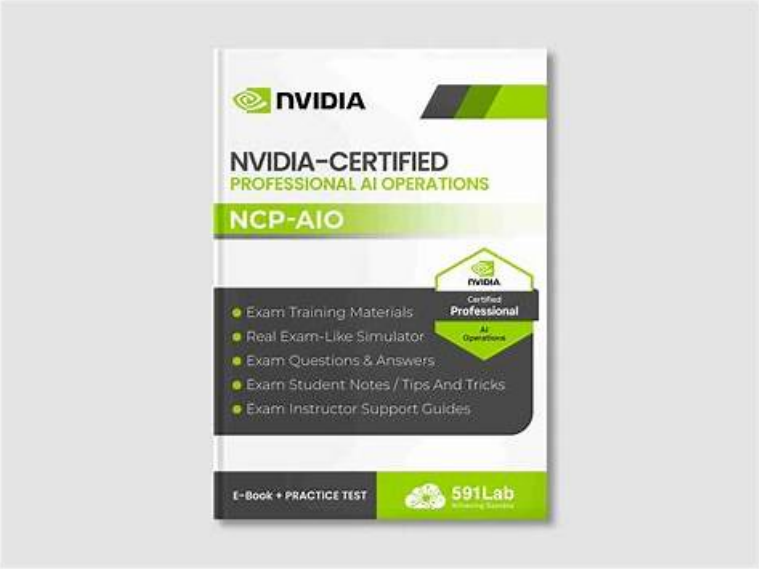

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NVIDIA NCP-AIO Exam Syllabus Topics:

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	• 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	• 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 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 (Q26-Q31):

NEW QUESTION # 26
You have multiple users sharing a server with a single NVIDIAA100 GPU. Two users, Alice and Bob, want to run deep learning experiments concurrently. Alice's job requires 20GB of GPU memory and 30% of compute, while Bob's job needs IOGB of GPU memory and 20% of compute. How can you use MIG to optimally configure the GPU to accommodate both users' requirements?

- A. Do not use MIG; let both users share the entire GPU.
- B. Create two MIG instances: one 3g.20gb instance for Alice and one lg.5gb instance for Bob.
- C. Create two MIG instances: one 4g.20gb instance for Alice and one 2g.10gb instance for Bob.
- D. Create two MIG instances: one lg.5gb instance for Alice and one lg.5gb instance for Bob.
- E. Create one MIG instance for Alice and let Bob use the remaining GPU resources.

Answer: C

Explanation:
This question challenges understanding of MIG instance sizes. Options A and B are not correct because they allocate insufficient memory to Alice. Option C is not correct because it does not provide dedicated resources for Bob. Option E means that Alice's job is resource intensive. The correct answer is D because it ensures that both Alice and Bob get at least the memory they need and some compute resource allocation. 4g.20gb and 2g.10gb instances ensure allocation of resources required for both users independently.

NEW QUESTION # 27
You observe that some of your AI training pods are being preempted by higher-priority pods, leading to wasted GPU resources and prolonged training times. How can you mitigate this issue while still ensuring that high-priority jobs can run?

- A. Disable preemption entirely on the Kubernetes cluster.
- B. Use taints and tolerations to dedicate specific nodes to AI training pods and prevent preemption.
- C. Lower the priority of the higher-priority pods.
- D. Configure PodDisruptionBudgets (PDBs) for the AI training pods to minimize disruptions.
- E. Increase the resource requests for the AI training pods to prevent preemption.

Answer: D

Explanation:
The correct answer is B. PodDisruptionBudgets (PDBs) allow you to define a minimum number of replicas that must be available at all times, preventing voluntary disruptions (including preemption) from affecting the training jobs too severely. Option A might delay preemption but won't prevent it if higher-priority pods still need resources. Option C could disrupt other important workloads. Option D isolates AI training, potentially underutilizing resources. Option E is generally not recommended as it can lead to scheduling issues for critical workloads.

NEW QUESTION # 28
You are configuring BCM for cluster provisioning. You want to automate the installation of specific software packages on each newly provisioned node. How can you achieve this?

- A. Create a Kubernetes Job that runs on each node to install the packages.
- B. Leverage a configuration management tool like Ansible or Chef within a BCM post-provisioning script.
- C. Specify the packages in the 'cluster.yamr file under the 'packages' section.
- D. Use a BCM post-provisioning script to install the packages.
- E. Include the package installation commands directly in the OS image.

Answer: B,D,E

Explanation:
Including packages in the OS image is a direct approach. Post-provisioning scripts allow customization after the base OS is installed. Configuration management tools offer more sophisticated automation. Kubernetes Jobs are designed for workload execution, not system-level package management. BCM does not have a 'packages' section in 'cluster.yamr for direct package specification.

NEW QUESTION # 29
Which configuration file dictates the initial settings and parameters for the Base Command Manager (BCM) installation?

- A. bcm.conf
- B. bcm_config.yaml
- C. cluster_config.json
- D. base_command.config
- E. nvidia bcm.ini

Answer: B

Explanation:
The 'bcm_config.yaml' file is the primary configuration file used during the initial installation and setup of Base Command Manager (BCM). It specifies various parameters such as the database connection details, authentication methods, and other system-level settings.

NEW QUESTION # 30
You are managing a Kubernetes cluster running GPU-accelerated AI workloads. You need to ensure that sensitive data, such as API keys and database credentials, used by these workloads is securely managed and accessible only to authorized pods. What are the best practices and Kubernetes features for achieving this?

- A. Store the sensitive data directly in the container image.
- B. Use Kubernetes Secrets to store the sensitive data and mount them as files or environment variables in the pods.
- C. Store the sensitive data in a centralized configuration management system (e.g., HashiCorp Vault) and use a sidecar container to retrieve the data and inject it into the pods.
- D. Store the sensitive data in environment variables within the pod definition.
- E. Encrypt the sensitive data using a symmetric key and store the encrypted data in a ConfigMap.

Answer: B,C

Explanation:
The correct answers are C and D. Kubernetes Secrets are designed for storing sensitive data and provide mechanisms for controlling access and managing encryption at rest. Using a centralized configuration management system like HashiCorp Vault is also a secure approach, as it provides features like audit logging, access control, and secret rotation. Option A is highly discouraged

as secrets should never be baked into images. Option B is also insecure, as environment variables can be easily exposed. Option E provides some obfuscation, but is not as secure as using a proper secret management solution.

NEW QUESTION # 31

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