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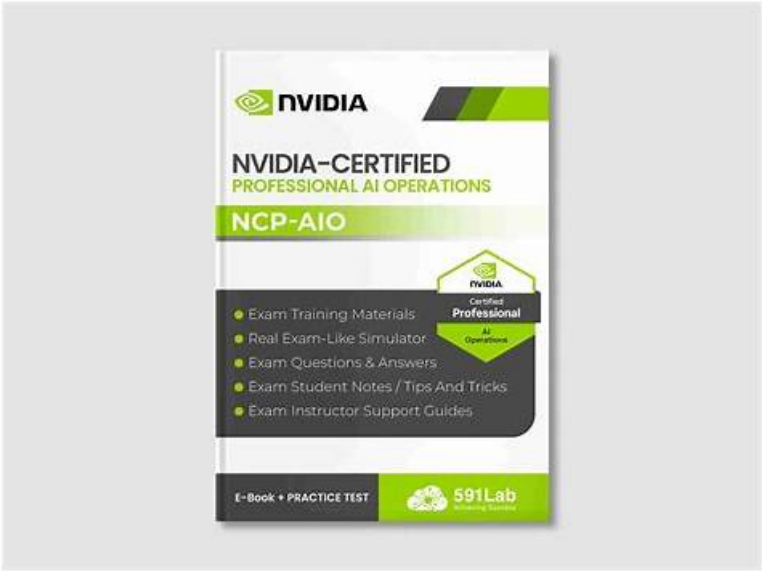

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NVIDIA NCP-AIO Exam Syllabus Topics:

Topic	Details
Topic 1	• 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 2	• 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 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	• 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.

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NVIDIA AI Operations Sample Questions (Q30-Q35):

NEW QUESTION # 30
A Fleet Command system administrator wants to create an organization user that will have the following rights:
For locations - read only
For Applications - read/write/admin
For Deployments - read/write/admin
For Dashboards - read only
What role should the system administrator assign to this user?

- A. Fleet Command Viewer
- B. Fleet Command Supporter
- C. Fleet Command Admin
- D. Fleet Command Operator

Answer: D

Explanation:
Comprehensive and Detailed Explanation From Exact Extract:
TheFleet Command Operatorrole is designed to provide users with read-only access to locations and dashboards while granting full read/write/admin rights for applications and deployments. This matches the described access requirements where the user can manage applications and deployments but only view locations and dashboards without modification rights. Other roles like Fleet Command Admin have broader permissions, Supporter has more limited access, and Viewer is primarily read-only for all resources.

NEW QUESTION # 31
An administrator wants to check if the BlueMan service can access the DPU.
How can this be done?

- A. Via a lightweight database operating in the DPU server
- B. Via Linux dump files
- C. Via the DOCA Telemetry Service (DTS)
- D. Via system logs

Answer: C

Explanation:
Comprehensive and Detailed Explanation From Exact Extract:
TheDOCA Telemetry Service (DTS)is used to monitor and verify the status and accessibility of services like BlueMan on NVIDIA DPUs. It provides telemetry data and health monitoring specific to the DPU and its services. System logs or dump files may provide indirect information but DTS is the targeted tool for this check.

NEW QUESTION # 32
A data scientist has provided you with a Jupyter Notebook running inside an NGC container. This notebook relies on a large dataset

stored in an object storage service (e.g., AWS S3, Google Cloud Storage). What's the most efficient and secure way to provide the notebook access to this data without embedding credentials directly into the notebook or container image?

- A. Mount the object storage as a network drive on the host system and then mount this drive into the container.
- B. Leverage Identity and Access Management (IAM) roles or Service Accounts associated with the Kubernetes cluster to grant the container access to the object storage.
- C. Use environment variables to pass the object storage credentials to the container.
- D. Utilize Kubernetes Secrets to store the object storage credentials and mount them as files into the container.
- E. Create a custom Docker image that includes the object storage SDK and hardcodes the credentials.

Answer: B,D

Explanation:
C and E are the most secure and efficient. Kubernetes Secrets allow for secure storage and management of sensitive data, which can be mounted into the container as files. Leveraging IAM roles or Service Accounts allows the container to inherit permissions from the Kubernetes cluster, eliminating the need for explicit credentials. Option B is less secure as environment variables can be easily exposed. Option A can introduce performance bottlenecks. Option D is highly discouraged due to security risks and lack of flexibility.

NEW QUESTION # 33
You're managing a Slurm cluster used for deep learning training. Users report that their jobs are being killed unexpectedly. After investigation, you suspect the issue is related to exceeding memory limits. Which Slurm configuration parameter is MOST relevant to investigate and adjust to address this issue?

- A. Scheduler Type=sched/backfill
- B. Prolog=/path/to/prolog_script
- C. Oversubscribe-FORCE
- D. DefMemPerCPU
- E. AccountingStorageType=accounting_storage/slurmdbd

Answer: D

Explanation:
DefMemPerCPU sets a default memory limit per CPU core. If users don't request enough memory and exceed this default, Slurm may kill their jobs. Investigating and adjusting this parameter is critical to preventing 00M (Out Of Memory) errors.

NEW QUESTION # 34
You are deploying a PyTorch container from NGC that utilizes Tensor Cores. How can you verify that Tensor Cores are being effectively used during inference?

- A. Examine the CUDA code within the container to confirm explicit Tensor Core API calls.
- B. Use the 'nvidia-smi' command to monitor GPU utilization and check for high Tensor Core activity.
- C. Check the container logs for messages indicating Tensor Core usage.
- D. Analyze the training loss curve; a steep decline indicates Tensor Core usage.
- E. Use the NVIDIA Nsight Systems profiler to analyze GPU kernel execution and identify Tensor Core operations.

Answer: B,E

Explanation:
B and E are correct. 'nvidia-smi' shows GPU utilization, including Tensor Core activity. Nsight Systems provides detailed profiling information, allowing you to identify specific Tensor Core operations. A is unreliable as log messages may not always be present. C refers to training, not inference. D is impractical without access to the container's source code.

NEW QUESTION # 35
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