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**Exam** : **NCP-AIO**

**Title** : NVIDIA Certified  
Professional AI Operations

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excellent path for you to pass the exam

## NVIDIA NCP-AIO Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"><li>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.</li></ul>
Topic 2	<ul style="list-style-type: none"><li>Troubleshooting and Optimization: NVThis 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.</li></ul>
Topic 3	<ul style="list-style-type: none"><li>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.</li></ul>
Topic 4	<ul style="list-style-type: none"><li>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.</li></ul>

## NVIDIA AI Operations Sample Questions (Q50-Q55):

### NEW QUESTION # 50

Your AI training pipeline involves processing large image datasets stored in a cloud object storage service (e.g., AWS S3, Google Cloud Storage). The download speed from the object storage is limiting your training performance. You are considering using caching mechanisms. Describe different caching strategies and their tradeoffs in this context.

- A. Completely removing caching: This is the simplest approach and always provides the best performance.
- B. In-memory caching using tools like Redis or Memcached: This offers very low latency but is limited by the available memory and can be expensive.
- C. Using the cloud provider's caching service (e.g., AWS CloudFront, Google Cloud CDN): This can improve performance for frequently accessed data but might introduce additional costs and complexity.
- D. Using only the object storage's built-in caching mechanisms: This is sufficient for all workloads and eliminates the need for additional caching layers.
- E. Local SSD caching on each compute node: This provides fast access but requires managing cache consistency and dealing with limited storage capacity.

**Answer: B,C,E**

Explanation:

Local SSD caching balances speed and capacity. In-memory caching offers the lowest latency but has memory limitations. Cloud provider's caching services improve performance for frequently accessed data but can have cost and complexity. Removing caching or relying solely on object storage caching is not ideal for performance-critical workloads.

### NEW QUESTION # 51

An organization has multiple containers and wants to view STDIN, STDOUT, and STDERR I/O streams of a specific container.

What command should be used?

- A. docker stats CONTAINER-NAME
- **B. docker logs CONTAINER-NAME**
- C. docker inspect CONTAINER-NAME
- D. docker top CONTAINER-NAME

**Answer: B**

Explanation:

The docker logs CONTAINER-NAME command retrieves the standard output (STDOUT) and standard error (STDERR) streams of a running or stopped container. It is the primary tool for inspecting container I/O logs for debugging and monitoring purposes. docker top shows running processes, docker stats shows resource usage, and docker inspect shows metadata/configuration.

#### NEW QUESTION # 52

Which method is used to evaluate multiple model versions by splitting user traffic and comparing their performance metrics in real-world conditions?

- A. Grid search
- B. Cross-validation
- **C. A/B testing**
- D. Shadow testing

**Answer: C**

Explanation:

A/B testing routes traffic to different model versions and compares their performance. It provides real-world insights into which model performs better, helping teams make data-driven deployment decisions.

#### NEW QUESTION # 53

A system administrator notices that jobs are failing intermittently on Base Command Manager due to incorrect GPU configurations in Slurm. The administrator needs to ensure that jobs utilize GPUs correctly.

How should they troubleshoot this issue?

- **A. Check if MIG (Multi-Instance GPU) mode has been enabled incorrectly and reconfigure Slurm accordingly.**
- B. Ensure that GPU resource limits have been correctly defined in Slurm's configuration file for each job type.
- C. Increase the number of GPUs requested in the job script to avoid using unconfigured GPUs.
- D. Verify that non-MIG GPUs are automatically configured in Slurm when detected, and adjust configurations if needed.

**Answer: A**

Explanation:

Misconfiguration related to MIG mode can cause Slurm to improperly allocate GPUs, leading to job failures. The administrator should verify whether MIG has been enabled on the GPUs and ensure that Slurm's configuration matches the hardware setup. If MIG is enabled, Slurm must be configured to recognize and schedule MIG partitions correctly to avoid resource conflicts.

#### NEW QUESTION # 54

You are managing a high availability (HA) cluster that hosts mission-critical applications. One of the nodes in the cluster has failed, but the application remains available to users.

What mechanism is responsible for ensuring that the workload continues to run without interruption?

- A. Load balancing across all nodes in the cluster.
- B. Manual intervention by the system administrator to restart services.
- **C. The failover mechanism that automatically transfers workloads to a standby node.**
- D. Data replication between nodes to ensure data integrity.

**Answer: C**

### Explanation:

In an HA cluster, the failover mechanism is responsible for detecting node failures and automatically transferring workloads to a standby or redundant node to maintain service availability. This process ensures mission-critical applications continue running without interruption. Load balancing helps distribute traffic but does not handle node failures. Manual intervention is not ideal for HA, and data replication ensures data integrity but does not itself manage workload continuity.

### NEW QUESTION # 55

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