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

**Title** : NVIDIA Certified  
Professional AI Operations

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It is generally acknowledged that candidates who earn the NVIDIA AI Operations (NCP-AIO) certification ultimately get high-paying jobs in the tech market. Success in the NVIDIA AI Operations (NCP-AIO) exam not only validates your skills but also helps you get promotions. To pass the NVIDIA AI Operations test in a short time, you must prepare with NCP-AIO Exam Questions that are real and updated. Without studying with NCP-AIO actual questions, candidates fail and waste their time and money.

## NVIDIA NCP-AIO Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"><li>• <b>Workload Management:</b> 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 2	<ul style="list-style-type: none"> <li>• <b>Administration:</b> 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 3	<ul style="list-style-type: none"> <li>• <b>Troubleshooting and Optimization:</b> 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 4	<ul style="list-style-type: none"> <li>• <b>Installation and Deployment:</b> 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>

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### NVIDIA AI Operations Sample Questions (Q27-Q32):

#### NEW QUESTION # 27

You need to configure BCM to send alerts when a GPU's temperature exceeds a critical threshold. Where would you configure this alerting policy within BCM?

- A. Within the DCGM configuration files on the GPU nodes.
- **B. Through the BCM web interface, in the 'Alerting Policies' section.**
- C. Using the 'nvidia-smi' command-line tool to set temperature thresholds and trigger alerts.
- D. In the 'bcm\_config.yaml' file.
- E. By creating a custom Prometheus rule and integrating it with BCM.

**Answer: B**

Explanation:

BCM provides a dedicated 'Alerting Policies' section in its web interface where you can define rules and thresholds for various metrics, including GPU temperature. You can configure the specific threshold, the alert severity, and the notification channels (e.g., email, Slack). Other options are either not directly supported or are more complex and less integrated.

#### NEW QUESTION # 28

You are tasked with deploying NVIDIA Base Command Manager (BCM) on a Kubernetes cluster that utilizes NVIDIA GPUs for AI workloads. The cluster already has the NVIDIA GPU Operator installed. Which of the following steps are crucial to ensure BCM can properly discover and manage the GPUs?

- A. Verify that the 'nvidia-driver-daemonset' is running and properly mounting the NVIDIA drivers into the container pods.
- B. Configure RBAC (Role-Based Access Control) to grant BCM the necessary permissions to access GPU metrics and manage resources within the Kubernetes namespace.
- C. Deploy a separate monitoring solution like Prometheus to gather GPU metrics for BCM.
- D. Install CUDA toolkit separately within the container image used by BCM.
- E. Ensure the NVIDIA Device Plugin for Kubernetes is installed and correctly configured.

**Answer: A,B,E**

Explanation:

BCM relies on the NVIDIA Device Plugin to expose GPUs to Kubernetes. RBAC configuration is essential for BCM to interact with the cluster and manage GPU resources. The 'nvidia-driver-daemonset' ensures the necessary drivers are available within the pods where GPU workloads are executed. While a separate monitoring solution might provide additional insights, it's not strictly required for BCM's basic GPU discovery and management functionality. The CUDA toolkit is usually already present in the base images used for AI workloads.

### NEW QUESTION # 29

Consider the following code snippet using NVSHMEM:

If this program hangs indefinitely after 'nvshmem\_barrier all()' inside the 'if(my\_pe 0)' block, what is the MOST likely cause?

- A. Memory corruption in 'nvshmem\_malloc' .
- B. Incorrect use of 'CUDA\_VISIBLE\_DEVICES'
- C. Incorrect use of 'MPI Barrier'.
- D. Deadlock due to insufficient NVLink bandwidth.
- E. PE 0 is waiting for other PEs to complete within the loop, but other PEs have already finished and finalized.

**Answer: E**

Explanation:

The issue is a classic synchronization problem. PE 0 is the only PE entering the loop, and it calls to get the values from other PEs. However, the other PEs have already proceeded past the first , executed , and potentially even before PE 0 attempts to read their values. Thus, PE 0 is waiting for PEs that are no longer in a state to respond. MPI\_Barrier isn't the issue, nor is NVLink bandwidth. Memory corruption or CUDA\_VISIBLE\_DEVICES issues would likely cause crashes, not hangs at this specific point.

### NEW QUESTION # 30

You've noticed consistently high GPU utilization but low overall throughput in your AI inference service. You suspect that a CUDA kernel is not efficiently utilizing the GPU's resources. Which profiling tool would provide the MOST detailed insights into kernel-level performance?

- A. 'top'
- B. 'vmstat'
- C. NVIDIA Nsight Systems
- D. nvidia-smi'
- E. DCGM

**Answer: C**

Explanation:

NVIDIA Nsight Systems (and its successor Nsight Compute for kernel-level analysis) is specifically designed for profiling CUDA kernels. It provides detailed information on kernel execution time, memory access patterns, and instruction-level performance, allowing you to identify inefficiencies. 'nvidia-smr and DCGM provide high-level GPU monitoring, while 'top' and 'vmstat' are system-level tools.

### NEW QUESTION # 31

What are the functionalities of 'SlurmDBD'?

- A. A high performance database for storing accounting information.
- B. A daemon used to manage Slurm's job queue.

- C. A web-based interface for managing Slurm clusters.
- D. A tool for monitoring the health of Slurm nodes.
- E. A command-line interface for submitting jobs to Slurm.

**Answer: A**

Explanation:

SlurmDBD (Slurm DataBase Daemon) is a high-performance database used to store accounting information, job history, and resource usage data for Slurm clusters. It allows administrators to track and analyze cluster usage patterns and generate reports.

## NEW QUESTION # 32

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