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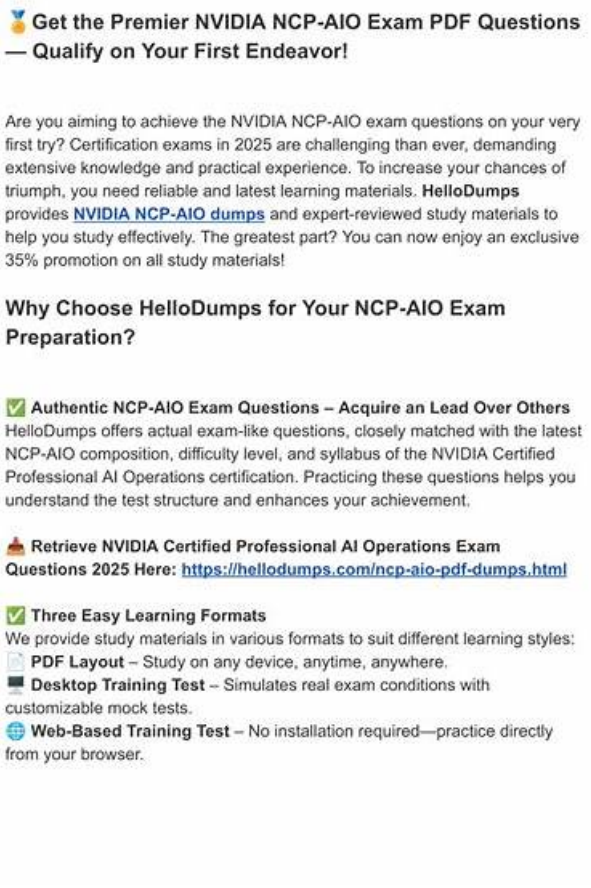

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NVIDIA NCP-AIO Exam Syllabus Topics:

Topic	Details
Topic 1	• 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 2	• 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 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	• 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.

NVIDIA AI Operations Sample Questions (Q62-Q67):

NEW QUESTION # 62
An administrator is troubleshooting a bottleneck in a deep learning run time and needs consistent data feed rates to GPUs.
Which storage metric should be used?

- A. Disk utilization in performance manager
- B. Disk free space
- C. Disk I/O operations per second (IOPS)
- D. Sequential read speed

Answer: D

Explanation:
When troubleshooting performance bottlenecks related to feeding data consistently to GPUs during deep learning workloads, the key storage metric to consider is sequential read speed.
Deep learning training typically involves streaming large datasets sequentially from storage to GPUs. The sequential read speed measures how fast data can be read in a continuous stream, directly impacting the ability to keep GPUs fed without stalls.

NEW QUESTION # 63
You want to monitor the GPU utilization of your BCM-managed cluster. Which tool would provide the most comprehensive real-time and historical GPU metrics?

- A. Kubernetes Dashboard.
- B. 'top' command on each node.
- C. Prometheus with the NVIDIA DCGM exporter.
- D. BCM's built-in monitoring dashboard.
- E. nvidia-smi' on each individual node.

Answer: C

Explanation:
Prometheus with the NVIDIA DCGM exporter is the best solution. 'nvidia-smr is node-specific and doesn't provide historical data. BCM and Kubernetes dashboards provide some metrics but not as granular. 'top' doesn't provide GPU metrics. DCGM Exporter exposes GPU metrics for Prometheus to scrape.

NEW QUESTION # 64
Which component in an AI pipeline is responsible for transforming raw data into meaningful inputs that machine learning models can effectively use for training and inference tasks?

- A. Model registry
- B. Deployment service
- C. Monitoring system
- D. Feature engineering

Answer: D

Explanation:
Feature engineering transforms raw data into structured inputs that improve model performance.
It is critical for extracting useful patterns and ensuring the model can learn effectively from the data.

NEW QUESTION # 65
You have a requirement to use SR-IOV (Single Root 1/0 Virtualization) to partition a physical GPU into multiple virtual functions (VFs) for different containers. What steps are necessary to configure BCM and Kubernetes to support this?

- A. Enable SR-IOV in the node's BIOS.
- B. Install the NVIDIA SR-IOV device plugin on each node.
- C. Specify the VF resource in the pod's resource requests (e.g., 'nvidia.com/vf: 1 '
- D. No special configuration is needed; Kubernetes automatically detects and uses SR-IOV enabled GPUs.
- E. Configure the number of VFs to create on each GPU in the node's device tree overlay.

Answer: A,B,C,E

Explanation:
SR-IOV needs to be enabled at the hardware (BIOS) level. The SR-IOV device plugin is required for Kubernetes to discover and manage VFs. VF creation involves device tree configuration. Pods need to explicitly request VF resources. Kubernetes doesn't automatically use SR-IOV without the plugin and configuration.

NEW QUESTION # 66
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. Increase the number of GPUs requested in the job script to avoid using unconfigured GPUs.
- B. Ensure that GPU resource limits have been correctly defined in Slurm's configuration file for each job type.
- C. Verify that non-MIG GPUs are automatically configured in Slurm when detected, and adjust configurations if needed.
- D. Check if MIG (Multi-Instance GPU) mode has been enabled incorrectly and reconfigure Slurm accordingly.

Answer: D

Explanation:
Comprehensive and Detailed Explanation From Exact Extract:
Misconfiguration related toMIG modecan 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 # 67
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