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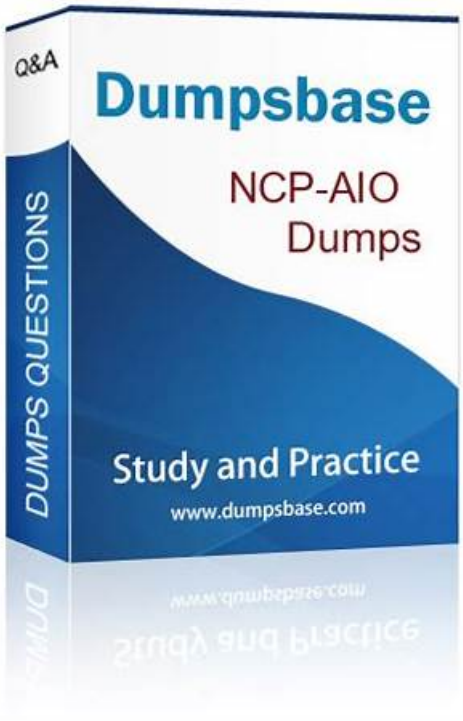

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NVIDIA NCP-AIO Exam Syllabus Topics:

Topic	Details
Topic 1	• 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 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	• 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.

NVIDIA AI Operations Sample Questions (Q26-Q31):

NEW QUESTION # 26
You are designing storage for an AI model that performs real-time object detection on streaming video. Which of the following storage characteristics are most important?

- A. High sustained write throughput for incoming video streams.
- B. Data deduplication for minimizing storage costs.
- C. Low latency for accessing video frames during inference.
- D. Support for cold storage.
- E. Large capacity for long-term video archival.

Answer: A,C

Explanation:
Real-time object detection requires both the ability to ingest incoming video streams quickly (high write throughput) and access frames with minimal delay (low latency) for inference. Long-term archival and deduplication are less critical for real-time performance. Cold storage is not relevant in the operational data flow.

NEW QUESTION # 27
You are designing storage for an AI data center focused on training large language models (LLMs). You need to optimize for both capacity and speed. Which storage technology is most suitable for the training data itself, considering the need for high throughput and parallel access?

- A. Object storage (e.g., AWS S3, Ceph) accessed over the internet
- B. Tape storage
- C. Network File System (NFS) over a 1 Gbps network
- D. Traditional Hard Disk Drives (HDDs) in a RAID 5 configuration
- E. NVMe-based parallel file system (e.g., BeeGFS, Lustre) directly attached to compute nodes

Answer: E

Explanation:
NVMe-based parallel file systems offer the highest throughput and lowest latency, crucial for feeding data to GPUs during LLM training. HDDs and NFS have significant performance bottlenecks, object storage is not optimized for the access patterns of training, and tape is for archival, not active use.

NEW QUESTION # 28
You are deploying a cloud VMI container on AWS using the NVIDIA GPU Cloud (NGC) AMI. You need to ensure that the container has access to a specific S3 bucket containing the training dat a. Which of the following is the MOST secure and recommended method to grant this access?

- A. Using an IAM role assigned to the EC2 instance running the VMI container.
- B. Creating a dedicated IAM user and distributing its credentials via AWS Systems Manager Parameter Store. Retrieve credentials during container startup.
- C. Storing AWS credentials in environment variables within the Dockerfile used to build the container image.
- D. Hardcoding AWS credentials directly within the container's application code.
- E. Using AWS Secrets Manager to store the credentials and retrieving them via the AWS CLI within the container.

Answer: A

Explanation:
Using an IAM role assigned to the EC2 instance is the most secure method. It avoids storing credentials within the container itself, relying instead on the AWS infrastructure's built-in security mechanisms. Option D is viable but more complex than simply using an IAM Role.

NEW QUESTION # 29
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. No special configuration is needed; Kubernetes automatically detects and uses SR-IOV enabled GPUs.
- B. Install the NVIDIA SR-IOV device plugin on each node.
- C. Configure the number of VFs to create on each GPU in the node's device tree overlay.
- D. Specify the VF resource in the pod's resource requests (e.g., 'nvidia.com/vf: 1 '
- E. Enable SR-IOV in the node's BIOS.

Answer: B,C,D,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 # 30
You are developing a DOCA application that needs to handle network packets at line rate. Which of the following DOCA services would be most suitable for achieving this goal and why?

- A. DOCA DPI: Provides deep packet inspection capabilities for analyzing packet content but is not optimized for line-rate processing.
- B. DOCA Telemetry: Designed for monitoring and collecting network statistics rather than packet processing.
- C. DOCA Flow: Allows defining complex flow rules and offloading packet processing to the DPU hardware, achieving high performance.
- D. DOCA RegEx: Offers regular expression matching for packet filtering but can introduce latency at high traffic rates.
- E. DOCA SPP: Provides support for scalable packet processing by managing packet buffers in user space but requires careful resource management.

Answer: C,E

Explanation:
DOCA Flow is designed for high-performance packet processing and allows offloading flow rules to the DPU hardware. DOCA SPP also plays a crucial role in line-rate processing with efficient packet buffer management.

NEW QUESTION # 31
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