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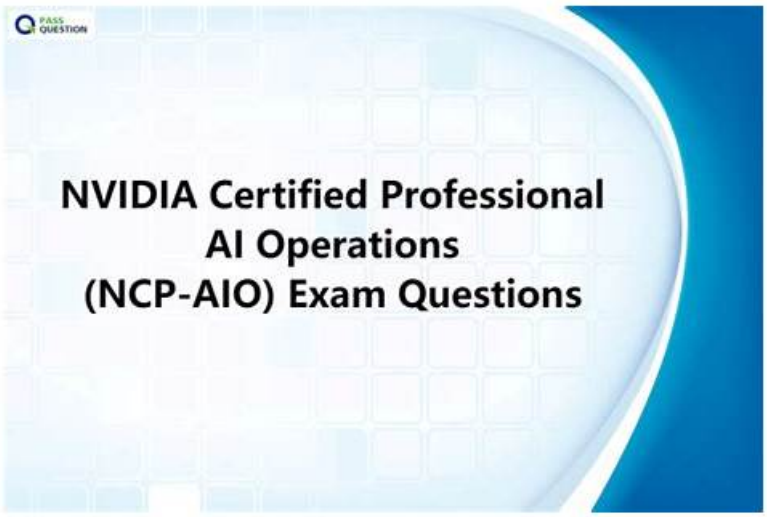

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NVIDIA NCP-AIO Exam Syllabus Topics:

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	• 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	• 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.

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NVIDIA AI Operations Sample Questions (Q36-Q41):

NEW QUESTION # 36
You are deploying a containerized application from NGC that relies on the NVIDIA Data Loading Library (DALI) for efficient data preprocessing. You want to ensure that DALI can access the GPU within the container. What steps are necessary to configure DALI correctly?

- A. Install the NVIDIA drivers directly within the container image.
- B. Ensure that the NVIDIA Container Toolkit is installed and configured on the host system.
- C. Use DALI's function to specify the GPU device ID within the DALI pipeline.
- D. Set the environment variable to specify the GPU to be used by DALI.
- E. Configure DALI to use the CPU for data preprocessing instead of the GPU.

Answer: B,C,D

Explanation:
The NVIDIA Container Toolkit enables GPU access. 'CUDA_VISIBLE DEVICES' controls GPU visibility. specifies the GPU device within the DALI pipeline. A is incorrect; drivers are provided by the host. D defeats the purpose of using DALI for GPU-accelerated data preprocessing.

NEW QUESTION # 37
You are troubleshooting an issue where a container inside a pod is unable to access the NVIDIA GPU. The NVIDIA Device Plugin is running, and the pod is requesting 'nvidia.com/gpu: 1'. What are the potential causes for this issue?

- A. The NVIDIA Container Toolkit is not installed or configured properly.
- B. The container image does not include the necessary NVIDIA libraries.
- C. The NVIDIA drivers are not correctly installed on the host node.
- D. The SELinux policy is preventing the container from accessing the GPU device.
- E. The GPU is already fully utilized by other pods on the node.

Answer: A,B,C,D

Explanation:
The correct answers are A, B, C, and D. Several factors can prevent a container from accessing the GPU. Incorrectly installed NVIDIA drivers (A) mean the device plugin cannot function. A misconfigured NVIDIA Container Toolkit (B) prevents the correct GPU passthrough. Missing NVIDIA libraries in the container image (C) lead to runtime errors. SELinux policies (D) can block device access. While E is possible, it usually leads to scheduling failures rather than the pod running without GPU access. The scheduler should prevent over-subscription.

NEW QUESTION # 38
You are tasked with optimizing a BCM pipeline that processes video streams in real-time. The pipeline frequently misses frames, resulting in dropped video. What are the most effective strategies to reduce frame drops?

- A. All of the above.
- B. Implement asynchronous processing to allow stages to run in parallel.
- C. Reduce the resolution or frame rate of the input video streams.
- D. Optimize the most computationally intensive stages of the pipeline using GPU acceleration (e.g., TensorRT).
- E. Increase the buffer size for video frames to accommodate processing delays.

Answer: A

Explanation:
Reducing input complexity, optimizing computationally expensive steps, enabling parallelism, and increasing buffer sizes all help alleviate frame drops in real-time video processing pipelines.

NEW QUESTION # 39
You are setting up a data center for AI research that requires both high-performance computing (HPC) for model training and interactive data science workstations. How would you optimally partition your GPU resources using NVIDIA vGPU?

- A. Use a fixed vGPU profile (e.g., 1/4 GPU) for all VMs, regardless of workload.
- B. Oversubscribe all GPUs to maximize VM density, even if it impacts performance.
- C. Allocate entire physical GPUs to HPC nodes and use CPU-based processing for data science workstations.
- D. Dedicate all GPUs to HPC tasks, as training is the most resource-intensive activity.
- E. Profile the resource utilization of both HPC and workstation workloads and dynamically adjust vGPU profiles to optimize performance and resource allocation.

Answer: E

Explanation:
Profiling and dynamic adjustment of vGPU profiles are crucial for optimal resource allocation. Different workloads have different resource needs. HPC benefits from large slices, while interactive workstations can function well with smaller slices. A fixed profile will likely lead to underutilization or performance bottlenecks. Oversubscribing without careful monitoring can lead to severe performance degradation. Limiting data scientists to CPU-based processing wastes valuable GPU resources.

NEW QUESTION # 40
An administrator requires full access to the NGC Base Command Platform CLI.
Which command should be used to accomplish this action?

- A. ngc config BCP
- B. ngc config set
- C. ngc set API

Answer: B

Explanation:
Comprehensive and Detailed Explanation From Exact Extract:
The commandngc config setis used to configure the NGC CLI, including setting up API keys, access tokens, and other credentials necessary for full access to the Base Command Platform (BCP) CLI functionalities. This command enables users to authenticate and manage their access effectively.

NEW QUESTION # 41
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