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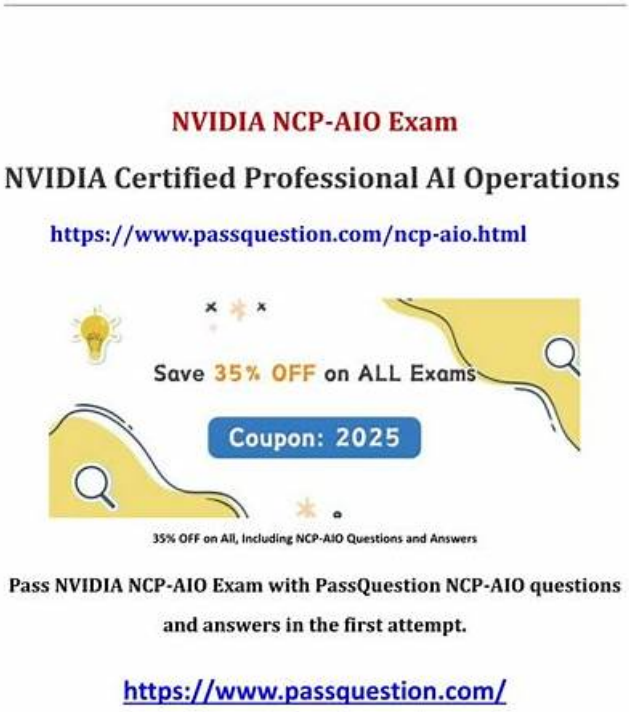

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NVIDIA NCP-AIO Exam Syllabus Topics:

Topic	Details
Topic 1	• 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 2	• 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 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.

NVIDIA AI Operations Sample Questions (Q48-Q53):

NEW QUESTION # 48
You are deploying a DOCA application on a BlueField-3 DPU. Which of the following components are essential for enabling RDMA communication between the DPU and the host server?

- A. Appropriate firewall rules configured on both the host and the DPU.
- B. Mellanox OFED (MLNX_OFED) driver on both the DPU and the host.
- C. Correctly configured PCI passthrough or SR-IOV on the host for the DPU's RDMA interfaces.
- D. DOCA SDK installed on the DPU only.
- E. Kernel bypass techniques like DPDK only on the DPU.

Answer: B,C

Explanation:
RDMA communication requires the correct drivers (MLNX_OFED) on both ends and proper PCI passthrough or SR-IOV configuration on the host to expose the DPU's RDMA capabilities. DOCA SDK helps build the applications, firewall rules are orthogonal and DPDK is one of the option. Kernel bypass on both host and dpu is needed.

NEW QUESTION # 49
What is the primary benefit of using GPUDirect Storage (GDS) in an AI data center?

- A. Automatic data tiering based on access frequency.
- B. Enhanced data security with end-to-end encryption.

- C. Simplified storage management through centralized control.
- D. Reduced CPU utilization during data transfers from storage to GPUs.
- E. Increased storage capacity by compressing data on the fly.

Answer: D

Explanation:
GPUDirect Storage allows data to be transferred directly from storage to GPU memory, bypassing the CPU and system memory. This reduces CPU utilization and improves overall performance, particularly for large datasets.

NEW QUESTION # 50
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. Install CUDA toolkit separately within the container image used by BCM.
- C. Ensure the NVIDIA Device Plugin for Kubernetes is installed and correctly configured.
- D. Deploy a separate monitoring solution like Prometheus to gather GPU metrics for BCM.
- E. Configure RBAC (Role-Based Access Control) to grant BCM the necessary permissions to access GPU metrics and manage resources within the Kubernetes namespace.

Answer: A,C,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 # 51
You are deploying a VMI container on a cloud platform, and you need to set up automatic scaling based on the GPU utilization. Which of the following approaches is MOST appropriate for implementing this?

- A. Manually monitor GPU utilization and scale the number of containers using the cloud provider's CLI.
- B. GPU Utilization cannot be used for Autoscaling.
- C. Configure the container's application to automatically scale itself based on GPU utilization.
- D. Use Kubernetes Horizontal Pod Autoscaler (HPA) based on CPU utilization.
- E. Use Kubernetes Horizontal Pod Autoscaler (HPA) with a custom metric that monitors GPU utilization using the NVIDIA DCGM Exporter.

Answer: E

Explanation:
Using Kubernetes HPA with a custom metric based on GPU utilization is the most robust and automated approach. The NVIDIA DCGM Exporter provides GPU metrics that can be used by the HPA to trigger scaling events based on actual GPU usage. Option A will not consider GPU Utilization.

NEW QUESTION # 52
When deploying a DOCA application that utilizes DPDK on a BlueField-2 DPU, what are the key considerations for ensuring optimal performance?

- A. Disable CPU frequency scaling to ensure consistent performance.
- B. Use the correct DPDK drivers for the Mellanox ConnectX adapters to enable hardware offload capabilities.
- C. Bind DPDK application threads to specific CPU cores to avoid context switching overhead.
- D. Allocate sufficient huge pages to DPDK to minimize TLB misses and improve memory access performance.
- E. Disable all interrupts to avoid context switching and maximize throughput.

Answer: B,C,D

Explanation:
DPDK performance relies on huge pages, CPU affinity, and proper driver usage. CPU frequency scaling should be tuned, not necessarily disabled, and disabling all interrupts is not a feasible solution.

NEW QUESTION # 53
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