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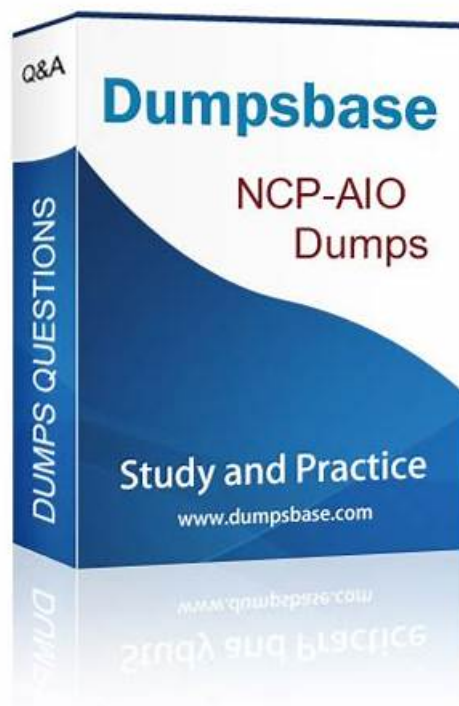

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NVIDIA NCP-AIO Exam Syllabus Topics:

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.

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NVIDIA AI Operations Sample Questions (Q25-Q30):

NEW QUESTION # 25
You are tasked with monitoring the GPU utilization of a Run.ai cluster to identify potential bottlenecks and optimize resource allocation.
Which of the following metrics, available through the Run.ai UI or CLI, would be MOST useful for this purpose?

- A. Network bandwidth usage per pod.
- B. GPU memory utilization per job and per node.
- C. Total number of jobs submitted.
- D. Disk I/O per container.
- E. CPU utilization per node.

Answer: B

Explanation:
GPU memory utilization per job and per node is the MOST useful metric for identifying GPU bottlenecks. It directly indicates how much of the available GPU memory is being used by each job and on each node, allowing you to identify overloaded nodes or jobs that are inefficiently using GPU resources. Other metrics are important for overall system monitoring, but GPU memory utilization is the key indicator for GPU-specific bottlenecks.

NEW QUESTION # 26
You're troubleshooting a performance issue in a distributed training job running on your Slurm cluster. You suspect network bottlenecks are contributing to the problem. Which Slurm command and option(s) would be MOST helpful in diagnosing network performance issues within the job's allocated nodes?

- A. squeue -l
- B. sdiag
- C. scontrol show job
- D. sstat -j
- E. srun -mpi=pmi2 iperf3 -s

Answer: E

Explanation:
The 'srun -mpi=pmi2 iperf3 -S command, when executed within a Slurm job allocation, will launch an iperf3 server on each node

allocated to the job, enabling you to measure network bandwidth between the nodes. This helps identify network bottlenecks.

NEW QUESTION # 27
When installing Kubernetes using BCM on NVIDIA hosts, what is the purpose of the 'nvidia-container-toolkit' and how does it interact with the container runtime (e.g., Docker or containerd)?

- A. It's a tool for monitoring GPU utilization within containers. It directly queries the NVIDIA driver for GPU metrics and exposes them via a REST API. It does not interact directly with the container runtime.
- B. It's a Kubernetes operator that automatically installs and manages the NVIDIA driver on worker nodes. It replaces the need for manual driver installation.
- C. It's a set of libraries and utilities that allow the container runtime to isolate and expose GPU devices to containers. It intercepts container creation requests and configures the container to access the GPU.
- D. It handles network configuration for containers running on NVIDIA hosts. It configures the container network interface (CNI) to optimize network performance for GPU-accelerated workloads.
- E. It's a command-line tool for building and deploying GPU-enabled container images. It automates the process of adding the NVIDIA driver to container images.

Answer: C

Explanation:
The 'nvidia-container-toolkit' is the bridge between the container runtime (Docker, containerd) and the NVIDIA driver. It allows the container runtime to correctly configure containers to use the GPUs on the host. It achieves this by intercepting container creation requests and modifying the container's configuration to enable GPU access.

NEW QUESTION # 28
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. NVIDIA Nsight Systems
- B. 'vmstat'
- C. DCGM
- D. 'top'
- E. nvidia-smi'

Answer: A

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 # 29
Consider a scenario where you have the following deployment manifest for Fleet Command. What is the primary function of 'resources' section within the manifest?

- A. Specifies dependencies on external libraries or frameworks.
- B. Specifies the location of the AI model to be deployed.
- C. Determines which devices receive the deployment based on label match
- D. Defines the computational resources (e.g., CPU, GPU, memory) required by the deployment.
- E. Configures networking settings for the deployment.

Answer: D

Explanation:
The 'resources section in a deployment manifest is primarily used to define the computational resource requirements of the deployment, ensuring that the application has access to the necessary CPU, GPU, and memory to function correctly.

NEW QUESTION # 30

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