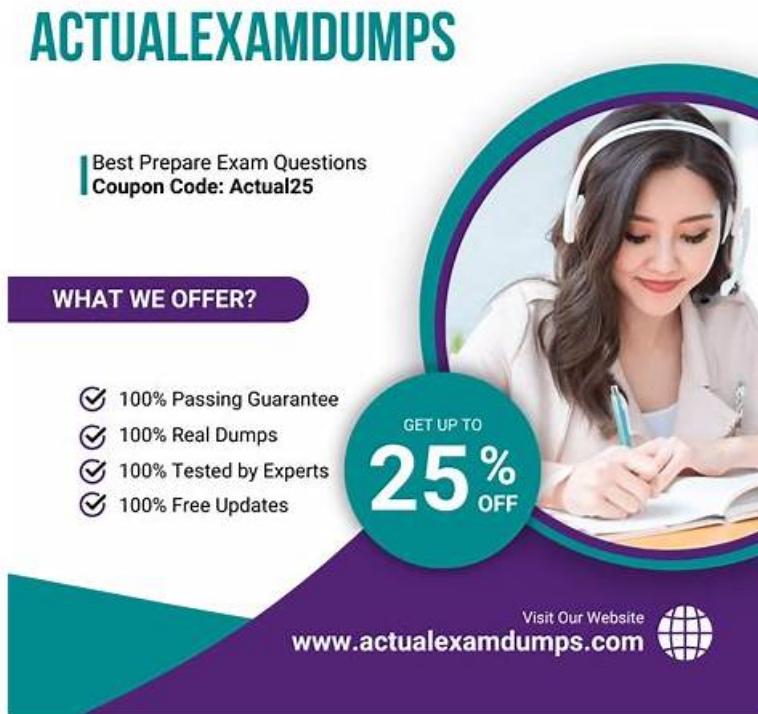


Exam Dumps NCP-AIO Pdf | Professional NCP-AIO: NVIDIA AI Operations



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NVIDIA NCP-AIO Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">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	<ul style="list-style-type: none">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	<ul style="list-style-type: none">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	<ul style="list-style-type: none"> • 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.
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NVIDIA AI Operations Sample Questions (Q65-Q70):

NEW QUESTION # 65

A system administrator needs to scale a Kubernetes Job to 4 replicas.

What command should be used?

- A. kubectl stretch job --replicas=4
- B. kubectl scale job -r 4
- C. kubectl autoscale deployment job --min=1 --max=10
- D. **kubectl scale job --replicas=4**

Answer: D

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

The correct command to scale a Kubernetes Job to a specific number of replicas is `kubectl scale job --replicas=4`. This explicitly sets the number of desired pod instances for the Job resource. The other commands are either invalid (stretch), apply to Deployments rather than Jobs (autoscale deployment), or use incorrect syntax (-r).

NEW QUESTION # 66

What is the primary role of the DOCA Comm Channel service in a DOCA application deployed on a DPU?

- A. Offloading network packet processing to the DPU hardware for improved performance.
- B. Enabling direct memory access (DMA) between different memory regions within the DPU.
- C. Monitoring the health and performance of the DPLJ and the DOCA application.
- D. Facilitating high-bandwidth data transfer between the host and the DPU using RDM
- E. **Providing a low-latency communication path for control messages and synchronization signals between the host and the DPU.**

Answer: E

Explanation:

DOCA Comm Channel is designed for low-latency communication of control messages between the host and the DPU. It's not intended for high-bandwidth data transfers. RDMA is used for data transfers. DMA used to move data between memory spaces within DPU or between Host and DPU. Other option doesn't reflect doca comm channel role.

NEW QUESTION # 67

Consider the following Kubernetes manifest snippet:

- A. Sets the container's memory limit to 2048MiB.

- B. Limits the container to using only 1024MiB of GPU memory.
- C. Allocates 1024milliCPU (0.1 Core) for the container
- D. Specifies that the container requires one NVIDIA GPU.
- E. Requests one CPU core for the container.

Answer: A,D,E

Explanation:

The manifest requests 1 NVIDIA GPU via 'nvidia.com/gpu: 1', requests one CPU core, and sets the memory limit to 2048MiB. While the CPU request could also be viewed as allocating CPU time slices, setting the millicpu limit is more precise for restricting CPU usage.

NEW QUESTION # 68

You observe high CPU utilization during data loading in your BCM pipeline. Which of the following techniques can mitigate this bottleneck?

- A. Utilize multiple CPU threads for parallel data loading.
- B. Implement data prefetching to load data in advance.
- C. All of the above.
- D. Use a high-performance storage system (e.g., NVMe SSD).
- E. Employ data compression to reduce the data transfer volume.

Answer: C

Explanation:

A faster storage system improves data access. Data prefetching hides latency. Compression reduces transfer size. Parallel loading distributes the workload. All these options help reduce the bottleneck.

NEW QUESTION # 69

You're using Docker Swarm to orchestrate a cluster of machines, some with GPUs and some without. You want to deploy a containerized AI application that requires GPUs, ensuring it only runs on nodes with GPUs available. How do you achieve this?

- A. Create separate Docker images one for GPU nodes and one for non-GPU nodes and deploy the appropriate image to each node type.
- B. Use Docker Compose with deployment constraints to specify the same node label requirement.
- C. Manually schedule the container on GPU-equipped nodes using 'docker run' with the '--gpu all' flag and node affinity.
- D. Use Docker Swarm's node constraints to specify that the service should only run on nodes with the 'nvidia.gpu=present' label.
- E. Use environment variables within the container to check for the presence of NVIDIA devices and exit if none are found.

Answer: B,D

Explanation:

Docker Swarm (and Compose in deploy mode) supports node constraints, allowing you to target deployments to nodes with specific labels (like 'nvidia.gpu=present'). Setting labels on the Swarm nodes is required first. Environment variable checks (C) are less reliable. Manual scheduling (D) defeats the purpose of orchestration. Separate images (E) are unnecessary with proper constraint usage.

NEW QUESTION # 70

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