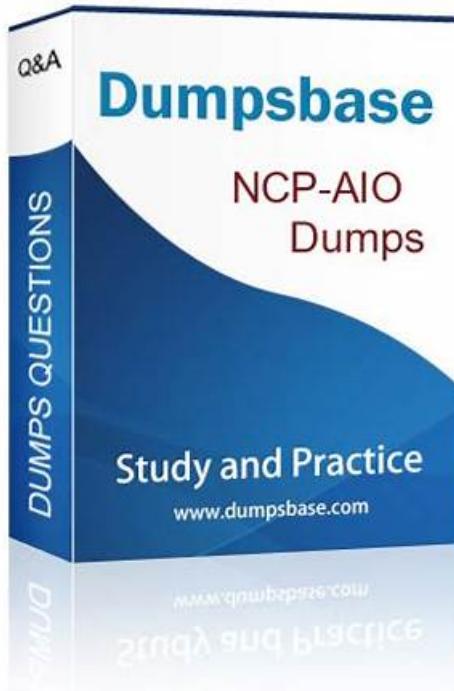


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NVIDIA NCP-AIO Exam Syllabus Topics:

Topic	Details
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Topic 1	<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 2	<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 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: This 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 (Q56-Q61):

NEW QUESTION # 56

You have deployed a container from NGC running a large language model (LLM) for text generation. You notice that the container's performance degrades significantly over time. You suspect that GPU memory fragmentation is contributing to this issue. How can you diagnose and mitigate GPU memory fragmentation in this scenario?

- A. Monitor GPU memory usage with `-nvidia-smi` and look for a high degree of fragmentation (small, non-contiguous memory blocks).
- B. Increase the container's memory limit to provide more space for memory allocation.
- C. Restart the container regularly to defragment the GPU memory.
- D. Use CUDA memory pools to pre-allocate memory and reduce the frequency of memory allocations and deallocations.
- E. Use the function in PyTorch (if applicable) to release unused GPU memory.

Answer: A,C,D,E

Explanation:

`'nvidia-smi'` can reveal memory fragmentation. Restarting defragments the memory. CUDA memory pools minimize fragmentation. E can release unused memory. D might delay the problem but doesn't address the root cause.

NEW QUESTION # 57

Which command line utility can be used to verify the proper functioning of GPUDirect RDMA between two GPUs on different nodes?

- A. `Ispci`
- B. `rocminfo`
- C. `'lsvb devinfo'`
- D. `nvidia-smi`
- E. `'cuda-memcheck'`

Answer: C

Explanation:

'ibv_devinfo' is a command-line utility (part of the InfiniBand Verbs library) that provides information about RDMA devices and their capabilities. This includes verifying that RDMA is enabled and configured correctly, which is essential for GPUDirect RDMA. 'nvidia-smi' monitors GPU status. 'rocminfo' is for AMD GPUs. 'cuda-memcheck' is for CUDA memory errors. 'lspci' lists PCI devices, but it doesn't specifically verify RDMA functionality.

NEW QUESTION # 58

When deploying a VMI container that utilizes CUDA, what is the primary purpose of the NVIDIA Container Toolkit?

- A. To monitor the GPU utilization of the container in real-time.
- B. To automatically install the correct NVIDIA drivers on the host system.
- C. To automatically scale the number of VMI containers based on workload.
- D. To manage and orchestrate Docker containers across multiple hosts.
- E. **To provide CUDA libraries and drivers inside the container, enabling GPU acceleration.**

Answer: E

Explanation:

The NVIDIA Container Toolkit allows you to build and run GPU-accelerated containers by providing the necessary CUDA libraries and drivers inside the container, ensuring that the application can leverage the GPU.

NEW QUESTION # 59

You are using 'nvsm' to manage your NVLink fabric. You want to verify the link speed and status between two specific GPUs. Which nvsm command provides the MOST detailed information about individual NVLink connections?

- A. **nvsm show links'**
- B. 'nvsm show configuration'
- C. 'nvsm show health'
- D. 'nvsm show topology'
- E. nvsm show devices'

Answer: A

Explanation:

'nvsm show links' provides detailed information about the individual NVLink connections, including their speed, status, and error counts. 'nvsm show topology' provides a high-level overview, while the other commands focus on different aspects of the system.

NEW QUESTION # 60

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 data. Which of the following is the MOST secure and recommended method to grant this access?

- A. Hardcoding AWS credentials directly within the container's application code.
- 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. Using AWS Secrets Manager to store the credentials and retrieving them via the AWS CLI within the container.
- E. **Using an IAM role assigned to the EC2 instance running the VMI container.**

Answer: E

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 # 61

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