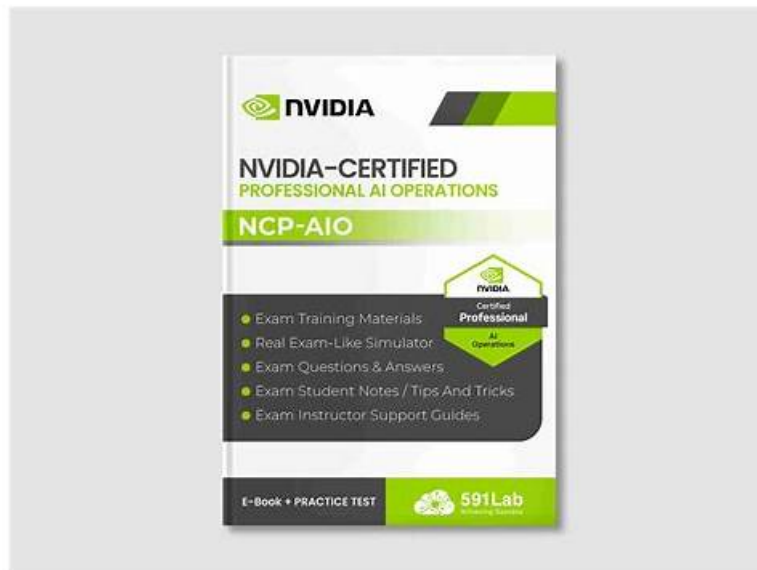


NVIDIA NCP-AIO Instant Discount - NCP-AIO Exam Materials



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NVIDIA NCP-AIO Exam Syllabus Topics:

Topic	Details
Topic 1	• Troubleshooting and Optimization: NVThis 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 (Q23-Q28):

NEW QUESTION # 23

What steps should an administrator take if they encounter errors related to RDMA (Remote Direct Memory Access) when using Magnum IO?

- A. Increase the number of network interfaces on each node to handle more traffic concurrently without using RDMA.
- B. Reboot all compute nodes after every job completion to reset RDMA settings automatically.
- C. Disable RDMA entirely and rely on TCP/IP for all network communications between nodes.
- D. Check that RDMA is properly enabled and configured on both storage and compute nodes for efficient data transfers.

Answer: D

Explanation:

Since Magnum IO relies on RDMA for direct data paths between storage and compute nodes, encountering RDMA errors requires verifying that RDMA is enabled and correctly configured on all involved nodes. This includes checking the network fabric, firmware versions, drivers, and ensuring compatibility. Disabling RDMA or unnecessary reboots do not solve underlying configuration problems.

NEW QUESTION # 24

Which BCM configuration file defines the operating system image used for provisioning new nodes?

- A. bcm.conf
- B. node.yaml
- C. cluster.yaml
- D. provisioning.yaml
- E. image.yaml

Answer: C

Explanation:

The 'cluster.yaml' file in BCM typically contains the definition of the operating system image, including the URL or path to the image file, along with other cluster-level configuration details like network settings and Kubernetes version.

NEW QUESTION # 25

A BCM pipeline is failing with 'CUDA out of memory' errors, even though 'nvidia-smi' reports available GPU memory. What steps should you take to diagnose and resolve this issue?

- A. Upgrade the GPU driver to the latest version.
- B. Enable CUDA memory pooling within the BCM framework.

- C. A, B and C
- D. Reduce the batch size in the BCM pipeline configuration.
- E. Increase the shared memory allocation for the BCM pipeline.

Answer: C

Explanation:

Reducing batch size, enabling CUDA memory pooling, and increasing shared memory allocation can all alleviate CUDA out-of-memory errors. CUDA memory pooling allows for more efficient memory reuse. Increasing shared memory can avoid allocation limits within the BCM pipeline.

NEW QUESTION # 26

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

Answer: B,C,D,E

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 # 27

You are managing a fleet of edge devices using Fleet Command and need to implement a mechanism for A/B testing of different AI models. What is the BEST approach to achieve this using Fleet Command?

- A. Schedule different model deployments at different times to perform time-based A/B testing.
- B. Manually deploy each model version to all devices and rely on the application to randomly select which model to use.
- C. Develop a custom script to dynamically switch between model versions on each device.
- D. Create separate Fleet Command organizations for each model version and manually direct traffic to each organization.
- E. Use Fleet Command's device targeting feature with labels to deploy different model versions to subsets of devices and configure traffic routing accordingly.

Answer: E

Explanation:

Device targeting with labels allows for controlled deployment of different model versions to specific device subsets, enabling effective A/B testing. Separate organizations (A) are overly complex. Manual deployment (C) lacks control. Custom scripts (D) add complexity. Time-based testing (E) is not true A/B testing.

NEW QUESTION # 28

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