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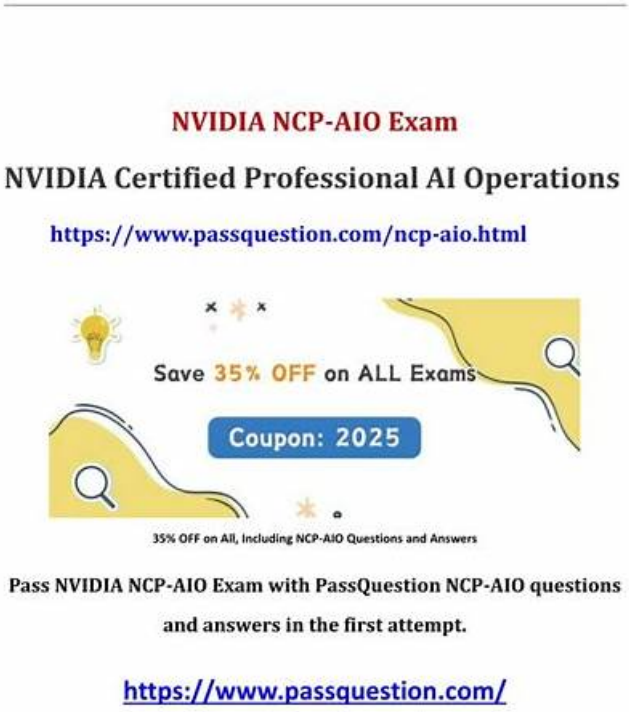

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NVIDIA NCP-AIO Exam Syllabus Topics:

Topic	Details
Topic 1	• 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	• 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 3	• 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 4	• 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.

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DumpsTorrent offers a free demo of NVIDIA AI Operations (NCP-AIO) exam dumps before the purchase to test the features of the products. DumpsTorrent also offers 1 year of free NCP-AIO exam questions updates if the NCP-AIO certification exam content changes after purchasing our NCP-AIO Exam Dumps. It is possible to adjust the NCP-AIO practice test difficulty levels according to your needs. You can choose the number of NVIDIA NCP-AIO questions and topics.

NVIDIA AI Operations Sample Questions (Q66-Q71):

NEW QUESTION # 66
You've deployed a container from NGC containing a computationally intensive AI model training script. You notice that the container is consistently being killed by the Kubernetes OOMKiller, even though the node has sufficient memory available. What are the possible causes and solutions?

- A. Profile the application's memory usage to identify and fix memory leaks.
- B. The node is running out of swap space, causing the OOMKiller to terminate processes aggressively.
- C. The container's memory limit is set too low, causing it to exceed its allocated memory.
- D. The application within the container has a memory leak, leading to excessive memory consumption.
- E. Increase the container's memory limit in the Kubernetes deployment manifest.

Answer: A,C,D,E

Explanation:
An insufficient memory limit triggers the OOMKiller. Memory leaks cause excessive consumption. Increasing the limit and fixing leaks are solutions. C, while a potential issue in some environments, is less likely than the container-specific reasons in a Kubernetes environment.

NEW QUESTION # 67
You're building a new AI data center and need to select a suitable data center location. Which of the following factors are MOST important to consider? (Select TWO)

- A. Proximity to a major airport.
- B. Low real estate costs.

- C. Local tax incentives.
- D. Availability of skilled technical staff.
- E. Reliable and cost-effective power supply.

Answer: D,E

Explanation:
Reliable and cost-effective power is crucial for operating a high-density AI data center. The availability of skilled technical staff is essential for managing and maintaining the infrastructure. While real estate costs and tax incentives are relevant, they are secondary to power and expertise. Proximity to an airport is less important. The location must be sustainable and scalable. These are very important points to take into account.

NEW QUESTION # 68
You have a Kubernetes cluster running on BCM and are using the NVIDIA device plugin. Some pods require a specific CUDA version that is different from the default CUDA version installed on the nodes. Which of the following is the MOST appropriate strategy to handle this requirement?

- A. Mount the CUDA toolkit from the host into the container using a hostPath volume.
- B. Use NVIDIA's container image that includes the desired CUDA version, ensuring that the container has the correct CUDA libraries.
- C. Use init containers to install the required CUDA version on the nodes before the main container starts.
- D. Install multiple CUDA versions directly on each node and configure each pod to use the desired version via environment variables.
- E. Create dedicated nodes for each CUDA Version, and define nodeSelectors

Answer: B

Explanation:
Using NVIDIA's container images that include the desired CUDA version is the recommended and most reliable approach. It avoids polluting the host system with multiple CUDA installations and ensures consistency. Installing multiple CUDA versions directly on nodes (A) can lead to conflicts. Mount CUDA from host via volumes bypasses the entire idea of running BCM. Create dedicated nodes is only viable for limited use case. Init containers may have issues cleaning up. The images provide the dependencies required for GPU workloads.

NEW QUESTION # 69
A research team wants to use a specific version of TensorFlow (e.g., TensorFlow 2.9.0) for their experiments within the Run.ai environment. What is the RECOMMENDED approach for ensuring this specific TensorFlow version is available to their jobs?

- A. Create a custom Docker image with TensorFlow 2.9.0 pre-installed and use that image for the Run.ai jobs.
- B. Install TensorFlow 2.9.0 directly on each node in the cluster.
- C. Specify the TensorFlow version in the Run.ai job definition using a 'tf-version' parameter.
- D. Use Run.ai's built-in environment module system to load TensorFlow 2.9.0.
- E. Mount a shared network drive containing TensorFlow 2.9.0 libraries into each container.

Answer: A

Explanation:
Creating a custom Docker image with the desired TensorFlow version (2.9.0 in this case) is the recommended approach. This ensures that the job has a consistent and reproducible environment, regardless of the underlying infrastructure. Installing directly on nodes creates management overhead and potential conflicts. Run.ai does not have a built-in tf-version parameter or environment module system for this purpose. Mounting a network drive is less reliable and can introduce performance issues.

NEW QUESTION # 70
An administrator is troubleshooting issues with an NVIDIA Unified Fabric Manager Enterprise (UFM) installation and notices that the UFM server is unable to communicate with InfiniBand switches.
What step should be taken to address the issue?

- A. Verify the subnet manager configuration on the InfiniBand switches.

- B. Install additional GPUs in the UFM server to boost connectivity.
- C. Reboot the UFM server to refresh network connections.
- D. Disable the firewall on the UFM server to allow communication.

Answer: A

Explanation:
Comprehensive and Detailed Explanation From Exact Extract:
Communication issues between UFM server and InfiniBand switches often result from misconfigured or missingsubnet manager configurationon the switches. The subnet manager controls fabric membership and routing, so verifying and correcting its setup is essential for proper UFM operation. Rebooting, adding GPUs, or disabling firewalls are less likely to resolve fabric-level communication problems.

NEW QUESTION # 71
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