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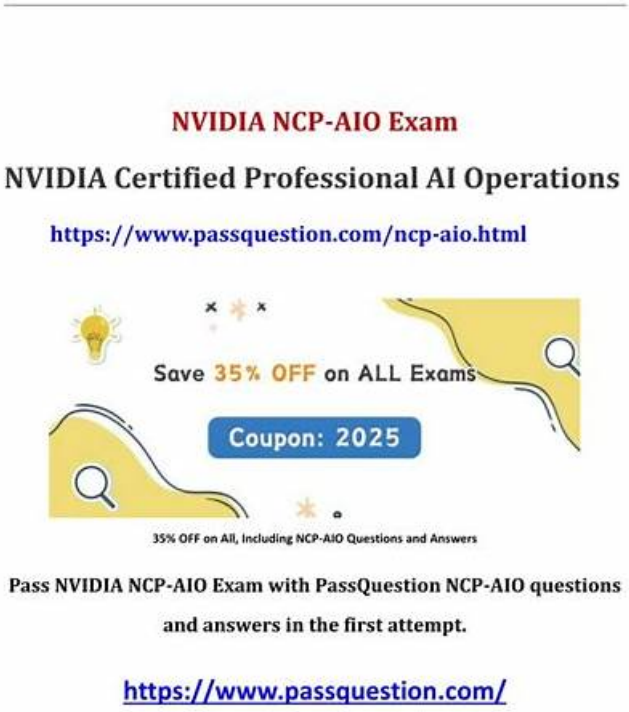

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NVIDIA NCP-AIO Exam Syllabus Topics:

Topic	Details
Topic 1	• 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 2	• 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	• 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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NVIDIA AI Operations Sample Questions (Q15-Q20):

NEW QUESTION # 15
An administrator requires full access to the NGC Base Command Platform CLI.
Which command should be used to accomplish this action?

- A. ngc config BCP
- B. ngc config set
- C. ngc set API

Answer: B

Explanation:
Comprehensive and Detailed Explanation From Exact Extract:
The commandngc config setis used to configure the NGC CLI, including setting up API keys, access tokens, and other credentials necessary for full access to the Base Command Platform (BCP) CLI functionalities. This command enables users to authenticate and manage their access effectively.

NEW QUESTION # 16
You are using 'nvsm' to manage NVLink across multiple nodes. You need to ensure that the 'nvsm' service is automatically started on all nodes after a system reboot. Which of the following methods is the MOST reliable way to achieve this?

- A. Add the 'nvsm' command to the '/etc/rc.locar file.
- B. Place the 'nvsm' executable in the 'letc/init.dP directory.
- C. Create a cron job that runs at reboot to start the 'nvsm' service.
- D. Use a systemd service unit file to manage the 'nvsm' service.
- E. Manually start 'nvsm' after each reboot.

Answer: D

Explanation:
Using a systemd service unit file is the most modern and reliable way to manage services on Linux systems. Systemd provides features like dependency management, automatic restarts, and logging, making it the preferred method for ensuring that 'nvsm' is started automatically after a reboot. 'rc.local', '/etc/init.d' , and cron jobs are older methods that are less reliable or less well-integrated with modern systems.

NEW QUESTION # 17
Consider the following Dockerfile snippet for a VMI container deployment:

- A. Copy all files from the current directory to /app
- B. Install CUDA toolkit version 11.0
- C. Run the command 'python app.py'
- D. Set the working directory to /app
- E. Copy the requirements.txt file and install python packages.

Answer: A,C,D,E

Explanation:
The snippet performs the following actions: Sets the working directory using WORKDIR, Copies files using COPY, and Runs a Python script using CMD. It installs the python requirments using requirements.txt file as well.

NEW QUESTION # 18
You are observing high GPU memory fragmentation, leading to 'CUDA out of memory' errors even when the total GPU memory utilization is relatively low. Which of the following strategies can help mitigate GPU memory fragmentation?

- A. Reduce the number of concurrent CUDA contexts running on the GPU.
- B. Use a GPU memory allocator library that supports memory defragmentation.
- C. Allocate large, contiguous memory blocks upfront and reuse them whenever possible.
- D. Upgrade the GPU to one with more memory.
- E. Increase the swap space on the server.

Answer: A,B,C

Explanation:
Allocating large blocks upfront (A) minimizes the creation of small, scattered memory allocations. Memory allocators with defragmentation capabilities (B) can reorganize memory to create larger contiguous blocks. Reducing concurrent CUDA contexts (C) decreases the number of independent memory allocation patterns that can lead to fragmentation. Increasing swap space (D) is a general memory management technique, but it doesn't directly address GPU memory fragmentation. Upgrading the GPU (E) provides more memory, but it doesn't solve the underlying fragmentation issue.

NEW QUESTION # 19
A fleet of edge devices running AI inference applications experiences intermittent network connectivity. You need to configure Fleet Command to handle these disruptions gracefully. Which of the following actions should you take to ensure application resilience?

- A. Configure Fleet Command to immediately roll back deployments when network connectivity is lost.
- B. Implement a local caching mechanism on the edge devices to store inference results during network outages and synchronize them when connectivity is restored.
- C. Instruct users to manually restart applications on the edge devices after network outages.
- D. Increase the timeout values for all Fleet Command operations.
- E. Disable all updates to the edge devices during periods of network instability.

Answer: B

Explanation:
A local caching mechanism allows edge devices to continue operating during network disruptions, ensuring application resilience. Rolling back deployments (A) is disruptive. Disabling updates (C) prevents improvements. Increasing timeouts (D) might help with

transient issues but doesn't address the underlying problem. Manual restarts (E) are not scalable or reliable.

NEW QUESTION # 20

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