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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	• 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	• 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	• 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 (Q38-Q43):

NEW QUESTION # 38
You're implementing a preemption policy in your Slurm cluster to allow higher-priority jobs to interrupt lower-priority jobs. Which Slurm configuration parameters are MOST relevant to configure preemption? (Select TWO)

- A. AccountingStorageType
- B. FastSchedule
- C. PreemptMode
- D. SchedulerRootFilter
- E. PreemptType

Answer: C,E

Explanation:
'PreemptMode' defines when preemption is triggered (e.g., 'OFF', 'CANCEL', 'REQUEUE'). 'preemptType' determines which jobs are eligible for preemption (e.g., 'priority', 'qos').

NEW QUESTION # 39
Which of the following statements regarding the NVIDIA Device Plugin for Kubernetes are correct?

- A. It replaces the need for the NVIDIA Container Toolkit.
- B. It ensures that containers have the necessary NVIDIA libraries and tools.
- C. It exposes GPUs as schedulable resources to Kubernetes.
- D. It allows Kubernetes to be aware of the NVIDIA GPUs present on the nodes.
- E. It automatically installs the NVIDIA drivers on the nodes.

Answer: C,D

Explanation:
The correct answers are A and C. The NVIDIA Device Plugin discovers NVIDIA GPUs on each node and advertises them as resources to the Kubernetes scheduler. It enables Kubernetes to allocate GPUs to containers. It does not install drivers (that's a separate process). It works with the NVIDIA Container Toolkit to provide the necessary libraries within the container. It does not replace the NVIDIA Container Toolkit; they work in conjunction.

NEW QUESTION # 40
Which of the following are benefits of using NVIDIA Fleet Command (Select all that apply)?

- A. Automatic GPU driver updates for non-NVIDIA GPUs.
- B. Centralized monitoring and management of edge devices.
- C. Automated over-the-air (OTA) updates for AI models and system software.
- D. Enhanced security and access control for AI deployments.
- E. Simplified AI model deployment and management at the edge.

Answer: B,C,D,E

Explanation:
Fleet Command provides simplified deployment (A), centralized monitoring (B), OTA updates (C), and enhanced security (D). It does not provide driver updates for non-NVIDIA GPUs (E).

NEW QUESTION # 41
You have an NVIDIAA100 GPU configured with MIG. After restarting the system, the MIG instances are no longer present. Which step is necessary to ensure MIG configurations persist after a reboot?

- A. Enable the 'MIG Persistence' option in the NVIDIA Control Panel.
- B. The MIG configuration is stored in the BIOS; no additional steps are necessary.
- C. Save the MIG configuration to a file using 'nvidia-smi mig -SIP and load it on system startup.
- D. Save the MIG configuration to the persistence database using 'nvidia-smi mig -Igip' . Also make sure you enable persistence mode.
- E. Update the NVIDIA driver after each system restart.

Answer: D

Explanation:
MIG configurations are not persistent by default. You can use command to load and save instance placement to persistence DB (Igip). The '-Igip' option stores the configuration, and the '-elgip' option ensures it is loaded on system startup. Make sure you also enable persistence mode, so that the setting will survive a system restart.

NEW QUESTION # 42
Your application, which relies heavily on NVLink for inter-GPU communication, is experiencing performance degradation over time. After investigating, you suspect that NVLink link errors are accumulating. How can you proactively monitor NVLink link error counts and trigger an alert when they exceed a predefined threshold? (Select TWO correct answers)

- A. Implement a custom script that periodically reboots the GPUs to clear the error counters.
- B. Use 'nvidia-smi' to query NVLink error counters and integrate the output into a monitoring system (e.g., Prometheus, Grafana).
- C. Use 'nvsm show links' and parse the output to extract error counts, then integrate this into a monitoring system.
- D. Configure 'nvsm' to automatically restart the NVLink connections when errors are detected.
- E. Analyze the system's kernel log for NVLink-related error messages.

Answer: B,C

Explanation:
'nvsm show linkS (or a similar 'nvsrn' command) and 'nvidia-smr are both capable of providing NVLink error counts. The key is to then integrate the output of these commands into a monitoring system that can trigger alerts based on predefined thresholds. 'nvsm' doesn't have native auto-restart features for links based on errors. Periodically rebooting GPUs is a poor workaround. Kernel logs can provide some information, but it is not an effective way of real time monitoring.

NEW QUESTION # 43
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