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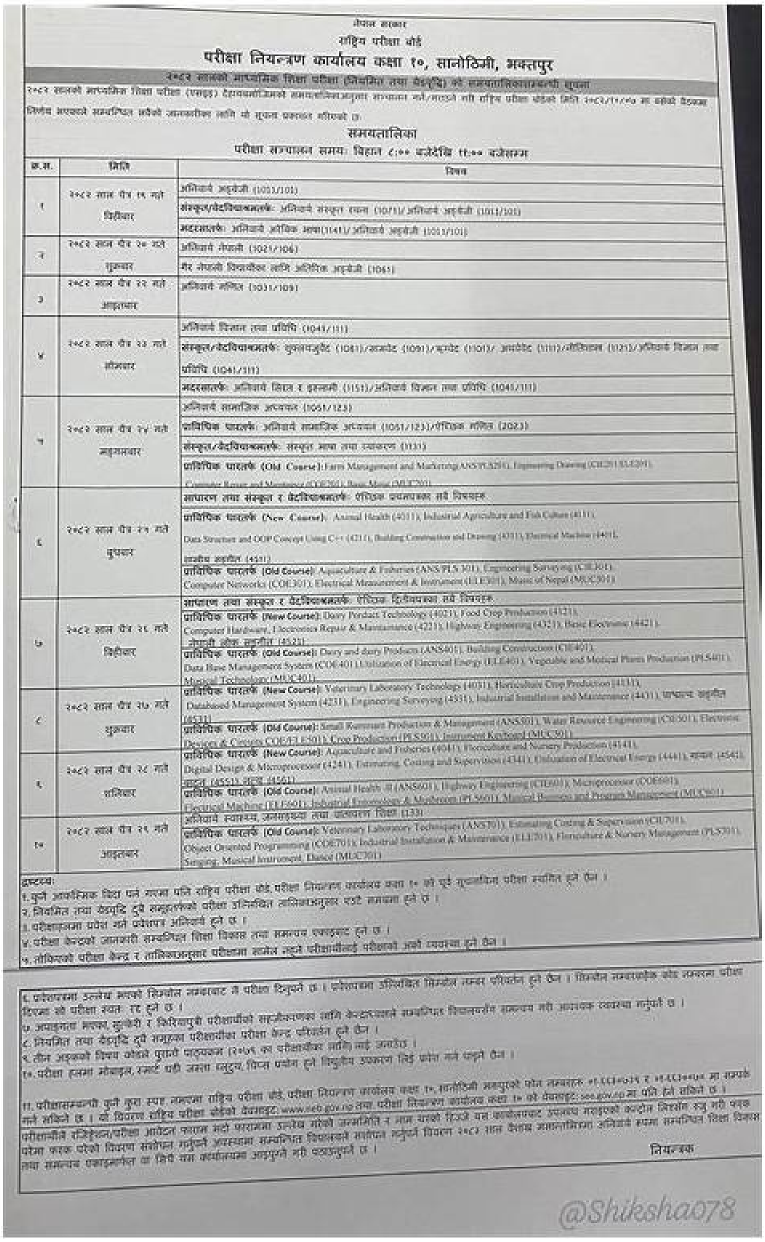

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NVIDIA NCP-AIO Exam Syllabus Topics:

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	• 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	• 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	• 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.

NVIDIA AI Operations Sample Questions (Q14-Q19):

NEW QUESTION # 14
A system administrator needs to lower latency for an AI application by utilizing GPUDirect Storage.
What two (2) bottlenecks are avoided with this approach? (Choose two.)

- A. CPU
- B. NIC
- C. System Memory
- D. DPU
- E. PCIe

Answer: A,C

Explanation:
Comprehensive and Detailed Explanation From Exact Extract:
GPUDirect Storage allows data to be transferred directly from storage to GPU memory,bypassing the CPU and system memory. This reduces latency and overhead by avoiding data movement through the CPU and main memory, accelerating data feeding to GPUs for AI workloads. PCIe and NIC are still involved in the data path, and the DPU may participate depending on architecture but are not the primary bottlenecks avoided by GPUDirect Storage.

NEW QUESTION # 15
Your BCM data pipeline, orchestrating various data transformation steps before feeding it to a deep learning model for training, utilizes both CPU and GPU resources. After a recent upgrade, some of the stages running on the CPU are experiencing performance regression. You want to pinpoint the exact stage causing the slowdown and understand resource utilization. Considering it's an NVIDIA environment and you don't have access to advanced profiling tools, what lightweight approach can you take to gain visibility?

- A. Implement simple logging statements within each CPU stage to record start and end times, allowing for manual calculation of execution duration.
- B. Employ Python's 'timeit' module to measure the execution time of individual stages in the CPU-bound portions of the pipeline.
- C. Use basic system utilities like 'top' or Shtop' to monitor CPU and memory utilization for each process related to the data pipeline.
- D. B, C and D.
- E. Utilize 'nvidia-smi' to monitor GPU utilization and identify potential bottlenecks.

Answer: D

Explanation:
'nvidia-smi' is mainly useful for GPU monitoring. Basic system tools ('top', 'htop') reveal CPU and memory usage. 'timeit' accurately measures the duration of specific code snippets. Simple logging provides a clear timeline of execution.

NEW QUESTION # 16
You're setting up a Kubernetes cluster on NVIDIA DGX servers using Bare Metal Container (BCM). During the pre-flight checks, the 'kubelet' fails to start on one of the worker nodes. The logs indicate a problem with device plugin registration. Which of the following is the MOST likely cause and the best initial troubleshooting step?

- A. Missing or misconfigured NVIDIA Container Toolkit. Ensure the toolkit is installed and configured correctly on the worker node.
- B. Firewall blocking communication between the kubelet and the NVIDIA device plugin. Check firewall rules on the worker node.
- C. Incorrect NVIDIA driver version. Verify the driver version is compatible with the Kubernetes version and NVIDIA Container Toolkit.
- D. SELinux policy preventing the device plugin from accessing the GPU devices. Check SELinux logs and adjust policies accordingly.
- E. Insufficient CPU resources allocated to the kubelet. Increase the CPU limit for the kubelet process.

Answer: A

Explanation:
The NVIDIA Container Toolkit is essential for exposing GPU devices to containers within Kubernetes. A missing or misconfigured toolkit is the most common reason for device plugin registration failures. Checking its installation and configuration is the crucial first step. Incorrect driver version (A) could be an issue but less likely. Firewall (B) and SELinux (C) are also possibilities, but Toolkit (D) is most direct. CPU resources (E) are unlikely to cause device registration issues.

NEW QUESTION # 17
A system administrator needs to scale a Kubernetes Job to 4 replicas.
What command should be used?

- A. kubectl scale job --replicas=4
- B. kubectl scale job -r 4
- C. kubectl autoscale deployment job --min=1 --max=10
- D. kubectl stretch job --replicas=4

Answer: A

Explanation:
Comprehensive and Detailed Explanation From Exact Extract:
The correct command to scale a Kubernetes Job to a specific number of replicas iskubectl scale job -- replicas=4. This explicitly

sets the number of desired pod instances for the Job resource. The other commands are either invalid (stretch), apply to Deployments rather than Jobs (autoscale deployment), or use incorrect syntax (-r).

NEW QUESTION # 18
You are experiencing performance issues with a specific AI workload running on your Kubernetes cluster managed by BCM. BCM shows high GPU utilization for this workload. How can you use BCM to further investigate the cause of the performance bottleneck?

- A. Use BCM to monitor the network bandwidth between the GPU nodes and the storage system.
- B. Use BCM to profile the workload's GPU usage and identify specific kernels or operations that are consuming the most GPU time.
- C. Use BCM to restart the Docker container running the workload.
- D. Use BCM to adjust the clock speeds of the GPUs to maximize performance for this workload.
- E. Use BCM to migrate the workload to a different GPU node with more available resources.

Answer: A,B

Explanation:
BCM's integration with profiling tools allows you to analyze the workload's GPU usage and identify performance bottlenecks. You can also monitor the network bandwidth, as data transfer bottlenecks can significantly impact AI workload performance. While migrating the workload might help, understanding the bottleneck first is crucial. Adjusting clock speeds can be risky. Restarting the container is a general troubleshooting step but doesn't provide specific insights.

NEW QUESTION # 19
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