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NCP-AIO Vce Format - Exam NCP-AIO Sample

The second version is the web-based format of the NVIDIA AI Operations (NCP-AIO) practice test. Browsers such as Internet Explorer, Microsoft Edge, Firefox, Safari, and Chrome support the web-based practice exam. You don't have to install excessive plugins or software to attempt this NVIDIA AI Operations (NCP-AIO) practice test.

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	• 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 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	• 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.

NVIDIA AI Operations Sample Questions (Q54-Q59):

NEW QUESTION # 54
Consider the following Kubernetes pod definition:

```
apiVersion: v1
kind: Pod
metadata:
  name: gpu-pod
spec:
  containers:
  - name: cuda-container
    image: nvidia/cuda:11.4.2-base-ubuntu20.04
    resources:
      limits:
        nvidia.com/gpu: 1
```


What does the 'nvidia.com/gpu: 1' setting achieve?

- A. It limits the container's GPU memory usage to IGB.
- B. It reserves one virtual GPU (vGPU) instance for the container.
- C. It allows the container to access NVIDIA drivers and libraries.
- D. It ensures that the pod is scheduled on a node with at least one NVIDIA GPU.
- E. It allocates one full GPU to the container.

Answer: C,D,E

Explanation:
The 'nvidia.com/gpu: 1 ' resource request ensures the pod is scheduled on a node with a GPU. It effectively allocates one full GPU to the container (unless using vGPU). It also implicitly provides access to NVIDIA drivers and libraries through the device plugin mechanism. It doesn't directly limit memory usage or reserve vGPU instances; those require additional configurations.

NEW QUESTION # 55
You are tasked with optimizing the performance of a large-scale graph analytics application that uses NVSHMEM for distributed shared memory. The application spends a significant amount of time in remote memory accesses. Which of the following strategies would be MOST effective in reducing the overhead of these remote accesses?

- A. Reduce the size of the graph.
- B. Switch to a CPU-based implementation.
- C. Increase the number of GPUs per node.
- D. Use NVSHMEM collectives for bulk data transfers.
- E. Disable CUDA-Aware MPI support

Answer: D

Explanation:
NVSHMEM collectives provide optimized routines for performing operations on shared memory across multiple processing elements (PEs). Using collectives for bulk data transfers, such as 'nvshmem_putmem' or 'nvshmem_getmem', is significantly more efficient than performing many individual small remote memory accesses. Increasing the number of GPUs per node might help with local computations but doesn't directly address remote access overhead. Reducing the graph size is not always feasible. A CPU-based implementation would likely be slower. Disabling CUDA-Aware MPI would degrade network communication speed, so not a good option.

NEW QUESTION # 56
A data scientist submits a Run.ai job requesting 4 GPUs. However, due to resource constraints, only 2 GPUs are immediately available. You want the job to automatically start running as soon as the remaining 2 GPUs become available, without manual intervention. How do you configure Run.ai to achieve this?

- A. Use Run.ai's 'suspend' and 'resume' commands manually.
- B. Set the job's 'restartPolicy' to 'Always'.
- C. Enable gang scheduling for the job.
- D. Configure a lower priority for the job.
- E. Set a higher quota for the team.

Answer: C

Explanation:
Gang scheduling ensures that all requested resources (in this case, all 4 GPUs) are allocated before the job starts. The job will remain in a pending state until all resources are available, and then it will automatically start. 'restartPolicy only applies if a job fails after it has already started. Lower priority would make it less likely to start. Manually suspending and resuming requires intervention. A quota impacts how much you can submit overall, not the allocation of the complete resources requested by a single job.

NEW QUESTION # 57
An administrator needs to submit a script named "my_script.sh" to Slurm and specify a custom output file named "output.txt" for storing the job's standard output and error.
Which `sbatch' option should be used?

- A. =-output-output output.txt
- B. =-e output.txt
- C. =-o output.txt

Answer: C

Explanation:
The correct sbatch option to specify a custom output file for both standard output and error is -o output.txt (or --output=output.txt). This option directs Slurm to write the job's standard output and error streams to the specified file. The -e option is for standard error only, and -output-output is not a valid option.

NEW QUESTION # 58
You have a hybrid environment with some GPUs connected via NVLink and others connected via PCIe. You want to use 'nvsm' to manage only the NVLink fabric. How can you configure 'nvsm' to ignore the PCIe-connected GPUs?

- A. Configure a whitelist in 'nvsm.conf to include only the NVLink devices by their NVLink IDs.
- B. There is no way to configure 'nvsm' to ignore specific GPUs.
- C. Update the system BIOS to disable the PCIe slots.
- D. Configure a blacklist in 'nvsm.conf to exclude the PCIe devices by their PCI IDs.
- E. Use the 'nvsm -ignore-pcie' command-line option when starting the service.

Answer: D

Explanation:
Typically, you can configure 'nvsm' to ignore specific GPUs by creating a blacklist in the 'nvsm.conf file. This blacklist would contain the PCI IDs of the PCIe-connected GPUs. 'nvsm' is designed to manage fabric links. 'nvsm' does not have a command line option to

ignore PCIe connected GPUs.

NEW QUESTION # 59
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