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This is a desktop-based NCP-AII practice exam software that doesn't require an internet connection except for license validation during purchase. The software provides NVIDIA AI Infrastructure (NCP-AII) practice exams that are customizable, helping students prepare for the actual NCP-AII Exam. The team updates the NVIDIA NCP-AII tests regularly and is available 24/7 to address any issues. Assessment records are saved for easy tracking. Windows computers support the desktop NVIDIA NCP-AII practice exam software.

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NVIDIA AI Infrastructure Sample Questions (Q265-Q270):

NEW QUESTION # 265

Which command is used to verify the installation and configuration of the NGC CLI after initial setup?

- A. 'ngc -version'
- B. 'ngc setup verify'
- C. 'ngc config validate'
- D. 'ngc registry model list'
- E. 'ngc system statue'

Answer: A,D

Explanation:

'ngc -version' confirms the CLI is installed and shows its version. 'ngc registry model list' verifies that the CLI can authenticate with NGC and access the registry.

NEW QUESTION # 266

You are tasked with troubleshooting a performance bottleneck in a multi-node, multi-GPU deep learning training job utilizing Horovod.

The training loss is decreasing, but the overall training time is significantly longer than expected. Which of the following monitoring approaches would provide the most insight into the cause of the bottleneck?

- A. Using 'nvidia-smi' on each node to monitor GPU utilization and memory usage.
- B. Analyzing the training loss curve to identify potential issues with the model architecture or hyperparameters.
- C. Using 'htop' to monitor CPU utilization on each node.
- D. Monitoring network bandwidth utilization on each node using 'iftop' or 'iperf3'.
- **E. Enabling Horovod's timeline and profiling features to visualize the communication patterns and identify synchronization bottlenecks.**

Answer: E

Explanation:

Horovod's timeline and profiling tools are specifically designed to visualize communication patterns and identify bottlenecks in distributed training jobs. While 'nvidia-smi' and network monitoring can provide useful information, they don't give the holistic view of communication overhead that Horovod's tools provide. Loss curve analysis helps with model-related issues, not distributed training bottlenecks. 'htop' isn't related to network or GPU specific issues in distributed processing.

NEW QUESTION # 267

Consider a scenario where you are setting up a high-performance computing cluster with several GPU-accelerated nodes using Slurm as the resource manager. You want to ensure that jobs requesting GPUs are only scheduled on nodes with the appropriate NVIDIA drivers and CUDA toolkit installed. How can you achieve this within Slurm?

- A. Utilize Slurm's Prolog and Epilog scripts to dynamically install the necessary NVIDIA drivers and CUDA toolkit on each node before and after a job runs. This ensures that the required software is always available.
- **B. Use Slurm's node features to tag nodes with the 'Feature=' keyword in 'slurm.conf'. For example, tag nodes with GPUs as 'Feature=gpu'. Jobs can then request nodes with the 'gpu' feature using the option.**
- C. Install the NVIDIA Data Center GPU Manager (DCGM) on each node and configure Slurm to query DCGM for GPU availability and health. Slurm will then only schedule jobs on healthy and available GPUs.
- D. Create a custom Slurm script that checks for the presence of the NVIDIA driver and CUDA toolkit before submitting a job to a node. If the requirements are not met, the job is rejected.
- E. Use Slurm's 'GresTypeS' configuration option in 'slurm.conf' to define a generic resource type called 'gpu' and then configure each node to advertise the available GPUs. Slurm will automatically ensure that jobs requesting GPUs are only scheduled on nodes with the 'gpu' resource.

Answer: B

Explanation:

Using Slurm's node features is the most straightforward and recommended approach for tagging nodes with specific capabilities. The '-constraint' option allows jobs to request nodes with particular features. GresTypeS can be used, but node features provide more flexibility and control. Installing drivers dynamically is impractical and inefficient. DCGM is primarily for monitoring, not core scheduling requirements.

NEW QUESTION # 268

You are tasked with configuring an NVIDIA A100 GPU for a multi-tenant environment using MIG. The goal is to provide the following MIG configuration:

- A. 1/1/1/1/1/1
- **B. 0/1 /2/3/4/5/6**
- C. 7/0/0/0/0/0
- D. 14/0/0/0/0/0
- E. 6/0/0/0/0/0

Answer: B

Explanation:

The question specifies that you need the configuration that allows 7x1g.10gb instances and one 7g.80gb. The format is

num_1g/num_2g/num_3g/num_4g/num_7g/num_10g/num_20g/num_40g. In the provided configuration, 0/1/2/3/4/5/6 means one 7g, then we need the instances.

NEW QUESTION # 269

An AI infrastructure utilizes NVIDIA ConnectX-7 NICs for inter-node communication. The requirement is to achieve a bandwidth of 400GbE with low latency over a distance of 100 meters. Which transceiver and cable type combination is MOST suitable for this scenario?

- A. QSFP-DD DR4 transceiver with single-mode fiber cable.
- B. QSFP-DD FR4 transceiver with single-mode fiber cable.
- C. QSFP-DD SR4 transceiver with OM4 multi-mode fiber cable.
- D. QSFP-DD LR8 transceiver with OM4 multi-mode fiber cable.
- E. QSFP-DD SR8 transceiver with OM3 multi-mode fiber cable.

Answer: C

Explanation:

QSFP-DD SR4 with OM4 provides 400GbE over short distances (up to 100m) using multi-mode fiber. DR4 and FR4 require single-mode fiber and are typically used for longer distances. LR8 typically requires single mode fibre for specified distances. Using SR8 with OM3 is unlikely to achieve 400GbE as SR8 works best with OM4/OM5.

NEW QUESTION # 270

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