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## **NVIDIA AI Infrastructure Sample Questions (Q277-Q282):**

### **NEW QUESTION # 277**

You are running a distributed training job on a multi-GPU server. After several hours, the job fails with a NCCL (NVIDIA Collective Communications Library) error. The error message indicates a failure in inter-GPU communication. 'nvidia-smi' shows all GPUs are healthy. What is the MOST probable cause of this issue?

- A. A bug in the NCCL library itself; downgrade to a previous version of NCCL.
- B. Insufficient inter-GPU bandwidth; reduce the batch size to decrease communication overhead.
- C. Incorrect NCCL configuration, such as an invalid network interface or incorrect device affinity settings.
- D. Driver incompatibility issue between NCCL and the installed NVIDIA driver version.

- E. A faulty network cable connecting the server to the rest of the cluster.

**Answer: C,D**

Explanation:

NCCL errors during inter-GPU communication often stem from configuration issues (B) or driver incompatibilities (E). Incorrect network interface or device affinity settings can prevent proper communication. Driver versions might not fully support the NCCL version being used. Reducing batch size (C) might alleviate symptoms but doesn't address the root cause. A faulty network cable (D) would likely cause broader network issues beyond NCCL. Downgrading NCCL (A) is a potential workaround but not the ideal first step.

#### NEW QUESTION # 278

You are tasked with installing the latest NVIDIA driver on a server running Ubuntu 22.04 for AI workloads. You have downloaded the driver package 'NVIDIA-Linux-x86\_64-535.104.05.run'. Before installation, what is the most critical step to ensure a smooth process, assuming secure boot is enabled?

- A. Simply run the '.run' file using 'sudo ./NVIDIA-Linux-x86\_64-535.104.05.run'.
- B. Install the driver using 'apt install nvidia-driver-535' and let the system handle Secure Boot automatically.
- **C. Create a DKMS module and sign the driver with a machine owner key (MOK) for Secure Boot compatibility.**
- D. Disable Secure Boot in the BIOS before installing the driver.
- **E. Ensure the 'nouveau' driver is blacklisted by adding 'blacklist nouveau' to '/etc/modprobe.d/blacklist-nouveau.conf'**

**Answer: C,E**

Explanation:

Secure Boot requires kernel modules to be signed. Directly running the '.run' file or disabling Secure Boot are generally not recommended. DKMS and MOK signing allows the driver to be validated by the system. Blacklisting 'nouveau' ensures that it won't conflict with the NVIDIA driver. Installing via 'apt' doesn't guarantee Secure Boot compatibility without further steps, so the best approach involves DKMS/MOK and blacklisting.

#### NEW QUESTION # 279

After upgrading the NGC CLI using 'pip install -upgrade nvidia-cli', some commands are no longer working as expected, producing errors related to missing modules. What is the most likely reason for this issue and how can you resolve it?

- **A. The NGC CLI upgrade introduced breaking changes. Review the NGC CLI release notes and update your scripts accordingly.**
- B. The system's PATH variable has not been updated to reflect the new NGC CLI installation location. Update the PATH variable accordingly.
- **C. The Python environment used by the NGC CLI might be broken or inconsistent. Create a new virtual environment and reinstall the NGC CLI in the new environment.**
- D. The host's operating system must be re-imaged.
- E. The upgrade process might have corrupted the NGC CLI installation. Reinstall the package using 'pip install -force-reinstall nvidia-cli'.

**Answer: A,C**

Explanation:

Breaking changes in the NGC CLI upgrade (B) are a possibility, requiring script updates. An inconsistent Python environment (C) can also cause issues after an upgrade. Reinstalling (A) or updating the PATH (D) might not resolve the issue if the environment itself is the problem. OS re-imaging is highly unnecessary (E).

#### NEW QUESTION # 280

You are trying to install the NVIDIA Container Toolkit on a Linux distribution that is not officially supported in the NVIDIA documentation.

The standard installation instructions using 'apt' or 'yum' fail. What is the most appropriate approach to proceed with the installation?

- A. Download the source code for the NVIDIA Container Toolkit and compile it manually.
- B. Create a Docker container with a supported distribution and run the application inside the container.

- C. Attempt to install the NVIDIA drivers and CUDA toolkit manually, bypassing the NVIDIA Container Toolkit altogether.
- D. Contact NVIDIA support and request a custom installation package for your distribution.
- E. Identify a similar, supported Linux distribution and adapt the installation instructions for that distribution, carefully considering potential compatibility issues.

**Answer: E**

Explanation:

The most practical approach is to try adapting the installation instructions from a similar, supported distribution (B). This involves carefully examining the package dependencies and potential compatibility issues. Manually installing drivers and CUDA (A) is complex and doesn't provide the containerization benefits. Compiling from source (C) might be possible but requires significant expertise and is not the recommended path. Running the application in a container (D) is a workaround, not a solution to installing the toolkit on the host. Requesting a custom package (E) is unlikely to be successful in a timely manner. The goal is to install the NVIDIA Container Toolkit itself, and not only run AI applications.

#### NEW QUESTION # 281

A data scientist reports slow data loading times when training a large language model. The data is stored in a Ceph cluster. You suspect the client-side caching is not properly configured. Which Ceph configuration parameter(s) should you investigate and potentially adjust to improve data loading performance? Select all that apply.

- A. `fuse_client_max_background`
- B. client quota
- C. mds cache size
- D. client cache size

**Answer: A,D**

Explanation:

Client-side caching in Ceph is primarily controlled by 'client cache size' which determines the amount of memory the Ceph client uses for caching data. 'mds cache size' controls the metadata server cache size, impacting metadata operations. 'fuse\_client\_max\_background' controls the maximum number of background requests a FUSE client can make, influencing concurrency. 'client quota' limits storage usage, not caching.

#### NEW QUESTION # 282

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