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## NVIDIA NCP-AII NVIDIA AI Infrastructure

### Questions & Answers PDF

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## NVIDIA AI Infrastructure Sample Questions (Q56-Q61):

### NEW QUESTION # 56

Your AI training workload involves a large dataset stored in an object storage system (like AWS S3). You notice that fetching data directly from S3 during training is a bottleneck. Which of the following strategies can significantly improve data loading performance?

- A. Use a caching layer (e.g., using Alluxio or JuiceFS) to cache frequently accessed data locally or on faster storage
- B. Switch to a different object storage provider
- C. Increase the number of S3 request retries
- D. Use S3 Glacier for data storage.
- E. Reduce the number of concurrent data loaders

**Answer: A**

Explanation:

A caching layer brings frequently accessed data closer to the compute nodes, reducing latency and improving throughput. Increasing retries only addresses transient errors. Reducing data loaders worsens performance. Switching providers might not solve the underlying latency issue. S3 Glacier is for archival, so will result in worse performance.

### NEW QUESTION # 57

You are tasked with optimizing an Intel Xeon scalable processor-based server running a TensorFlow model with multiple NVIDIA GPUs.

You observe that the CPU utilization is low, but the GPU utilization is also not optimal. The profiler shows significant time spent in 'tf.data' operations. Which of the following actions would MOST likely improve performance?

- A. Upgrade the server's network adapter to a faster interface, such as 100Gb
- B. Increase the number of threads used for CPU-bound operations in TensorFlow using 'tf.config.threading.set\_intra\_op\_parallelism\_threads()'.
- C. Enable XLA (Accelerated Linear Algebra) compilation in TensorFlow.
- D. Use 'tf.data.AUTOTUNE to allow TensorFlow to dynamically optimize the data pipeline.
- E. Reduce the global batch size to improve memory utilization.

**Answer: D**

Explanation:

'tf.data' performance issues often stem from inefficient data pipelines. 'tf.data.AUTOTUNE allows TensorFlow to dynamically optimize the pipeline by adjusting parameters such as prefetch buffer size and the number of parallel calls to transformation functions. XLA compilation optimizes graph execution, but 'tf.data' issues need to be addressed first. Increasing CPU threads might help but 'AUTOTUNE' is more specific to the problem. A smaller batch size could negatively impact GPU utilization. Network upgrades are irrelevant as the problem lies within the server.

### NEW QUESTION # 58

A server with 8 NVIDIA A100 GPUs is experiencing an unexpected shutdown under heavy load. The IPMI logs show a 'Power Supply Deasserted' event immediately preceding the shutdown. After replacing the PSU, the issue persists. What is the MOST likely cause of the continued shutdowns?

- A. Insufficient system memory (RAM).
- B. A faulty CMOS battery.
- C. Incompatible GPU driver version.
- D. Network congestion causing system instability.
- E. Overcurrent protection (OCP) tripping due to excessive inrush current during GPU startup.

**Answer: E**

Explanation:

The 'Power Supply Deasserted' event, even after replacing the PSU, strongly suggests that overcurrent protection (OCP) is being triggered. OCP is a safety mechanism that shuts down the PSU if it detects excessive current draw. This is particularly likely with

multiple high- power GPUs, as the inrush current during startup can momentarily exceed the PSU's capacity. A driver issue or insufficient memory is less likely to cause this specific event.

#### NEW QUESTION # 59

You need to configure persistent network settings on your BlueField SmartNIC after deploying BlueField OS. Which file should you modify to ensure these settings are applied after each reboot, assuming a Debian-based distribution?

- A. /etc/dhcp/dhclient.conf
- B. /etc/sysconfig/network-scripts/ifcfg-
- C. /etc/hostname
- D. /etc/resolv.conf
- E. /etc/network/interfaces

**Answer: E**

Explanation:

On Debian-based systems, the '/etc/network/interfaces' file is the standard location for configuring persistent network settings. Changes made to this file will be applied on each boot. /etc/resolv.conf is for DNS settings, & /etc/hostname sets the system's hostname, and '/etc/sysconfig/network-scripts/ifcfg-' is more commonly found on Red Hat-based systems. /etc/dhcp/dhclient.conf is for DHCP settings.

#### NEW QUESTION # 60

You are installing the NGC CLI using 'pip' behind a corporate proxy. The installation fails due to connection errors. How do you configure pip' to use the proxy during the NGC CLI installation?

- A. Download the NGC CLI package manually and install it offline.
- B. Create a 'pip.conf file in the appropriate directory (e.g., '-/pip/pip.conf) and configure the proxy settings within the file.
- C. Use the '-proxy option with the 'pip install' command, specifying the proxy server address and port.
- D. NGC CLI does not support the use of proxies
- E. Set the 'http\_proxy' and 'https\_proxy' environment variables with the proxy server address and port.

**Answer: B,C,E**

Explanation:

You can configure 'pip' to use a proxy by setting environment variables (A), using the '-proxy' option with the 'pip install' command (B), or creating a 'pip.conf file (C). Downloading the package manually (D) is a workaround for the initial installation but doesn't address ongoing communication with NGC. Option E is incorrect since NGC CLI does support proxy configuration.

#### NEW QUESTION # 61

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