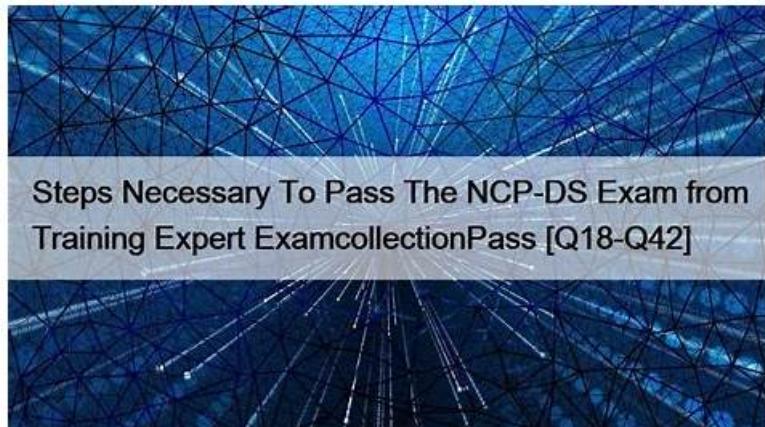


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NVIDIA AI Infrastructure Sample Questions (Q98-Q103):

NEW QUESTION # 98

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. **client cache size**
- B. client quota
- C. mds cache size
- D. **fuse_client_max_background**

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. controls the maximum number of background requests a FUSE client can make, influencing concurrency. affects the number of threads used by the OSDs, not the client-side caching, and 'client quota' limits storage usage, not caching.

NEW QUESTION # 99

A developer reports that their CUDA application running on a MIG instance is experiencing significantly reduced memory bandwidth compared to running on a full GPU. What are the potential causes for this performance bottleneck? (Select all that apply)

- A. The application is exceeding the memory capacity of the MIG instance, leading to excessive swapping.
- B. The application is not optimized to take advantage of the MIG instance's specific memory bandwidth limitations.
- C. MIG instances inherently provide higher memory bandwidth due to their partitioned nature, so this report must be incorrect.
- D. The MIG instance has a smaller memory allocation compared to the full GPU, thus limiting the application's memory footprint.
- E. The CUDA driver version is not compatible with the MIG configuration, resulting in reduced performance.

Answer: A,B,D,E

Explanation:

MIG instances have smaller memory allocations (A) compared to the full GPU, which naturally limits memory footprint. Applications may not be optimized for MIG's bandwidth limitations (B) and might require tuning. Exceeding memory capacity will trigger swapping (C), significantly reducing performance. Incompatible CUDA drivers (D) can lead to performance degradation. MIG instances don't inherently offer higher bandwidth (E); they divide the overall GPU resources.

NEW QUESTION # 100

You are configuring network fabric ports for NVIDIA GPUs in a server. The GPUs are connected to the network via PCIe. What is the primary factor that determines the maximum achievable bandwidth between the GPUs and the network?

- A. The color of the Ethernet cables.
- B. The clock speed of the CPU.
- C. The PCIe generation and number of lanes connecting the GPUs to the network adapter (e.g., PCIe 4.0 x16).
- D. The speed of the system's hard drives or SSDs.
- E. The amount of system RAM.

Answer: C

Explanation:

The PCIe generation (e.g., PCIe 4.0, PCIe 5.0) and the number of lanes (e.g., x8, x16) directly determine the maximum theoretical bandwidth available between the GPUs and the network adapter. Higher PCIe generations and more lanes provide greater bandwidth. For example, PCIe 4.0 x16 offers significantly more bandwidth than PCIe 3.0 x8. All other options are either irrelevant or have a negligible impact on this particular bottleneck.

NEW QUESTION # 101

You have an Intel Xeon Gold server with 2 NVIDIA Tesla V100 GPUs. After deploying your AI application, you observe that one GPU is consistently running at a significantly higher temperature than the other. What could be a plausible reason for this behavior?

- A. One GPU is defective and drawing excessive power.
- B. The workload is not evenly distributed between the GPUs, causing one GPU to be more heavily utilized.
- C. The ambient temperature in the server room is higher on one side of the rack.
- D. The server's airflow is inadequate, causing poor cooling for one of the GPUs.
- E. One GPU's driver version is outdated, leading to inefficient power management.

Answer: B,D

Explanation:

Uneven heat distribution often points to airflow problems or unbalanced workloads. Inadequate airflow can cause localized hotspots.

Uneven workload distribution will naturally cause one GPU to work harder and generate more heat. While a defective GPU or driver issues are possibilities, they are less likely than airflow and workload imbalances in this scenario. High ambient temperature is also a contributing factor but less direct.

NEW QUESTION # 102

You are configuring a BlueField-3 DPLJ for a cloud-native application using Kubernetes. You want to offload container networking using OVS (Open vSwitch). Which of the following configuration steps are NECESSARY to integrate the BlueField-3 DPIJ with the Kubernetes cluster for network offload? (Select TWO)

- A. Configure the BlueField DPIJ to act as a DHCP server for the Kubernetes pods.
- B. Deploy the NVIDIA BlueField Kubernetes Operator to manage the DPIJ lifecycle and networking configurations.
- C. Configure the Kubernetes CNI (Container Network Interface) to use the OVS bridge managed by the BlueField DPIJ.
- D. Install the Mellanox OFED drivers on all Kubernetes worker nodes.
- E. Manually create OVS bridges and vPorts on the BlueField DPU using 'ovs-vsct'.

Answer: B,C

Explanation:

The NVIDIA BlueField Kubernetes Operator is essential for automating the management and configuration of the DPIJ within the Kubernetes environment. This includes creating and managing OVS bridges. Integrating the Kubernetes CNI to use the OVS bridge managed by the BlueField DPIJ allows pod networking traffic to be offloaded to the DPU. Installing Mellanox OFED everywhere isn't needed with the operator. While you could manually create the bridges (E), the operator is the preferred method. The DPIJ acting as a DHCP server (D) is not a requirement for simple network offload.

NEW QUESTION # 103

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