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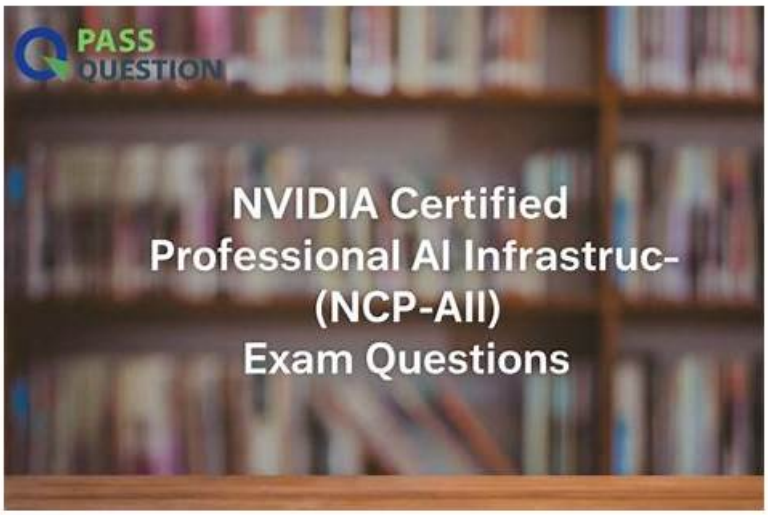

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NVIDIA AI Infrastructure Sample Questions (Q121-Q126):

NEW QUESTION # 121
You are managing an NVIDIA DGX A100 server and notice that GPU utilization fluctuates significantly during a supposedly constant training workload. You suspect power capping might be the cause. How can you definitively determine if power capping is active and affecting GPU performance?

- A. Use 'nvidia-smi' to query the 'ClocksThrottleReasonS. If 'PowerCap' is listed as active, power capping is in effect.
- B. Monitor GPU temperature using 'nvidia-smi'. If the temperature is consistently below the thermal threshold, power capping is likely active.
- C. Check the server's BIOS settings for any power management configurations that might be limiting GPU power consumption.

- D. Monitor the voltage supplied to the GPUs. If the voltage is consistently lower than the maximum rated voltage, power capping is active.
- E. Examine the 'pstate' value reported by 'nvidia-smi'. A lower 'pstate' indicates power capping.

Answer: A

Explanation:
The most direct way to determine if power capping is active is to use 'nvidia-smi' and query the 'ClocksThrottleReasonS. If PowerCap' is listed as active, it definitively indicates that power capping is in effect and limiting the GPU's performance. The 'pstate' value can be indicative, but not always conclusive. Temperature alone doesn't confirm power capping.

NEW QUESTION # 122
ClusterKit's NCCL bandwidth test shows 350 GB/s on a 400G InfiniBand fabric. How should this result be interpreted?

- A. Suboptimal performance; requires FEC tuning to reach 380+ GB/s.
- B. Critical failure; expected is greater than 390 GB/s for HDR InfiniBand.
- C. Inconclusive; rerun with --stress=cpu to validate.
- D. Optimal performance, indicating healthy fabric and GPUDirect RDMA.

Answer: D

Explanation:
The result should be interpreted as optimal in the context of the provided ClusterKit NCCL bandwidth test.
ClusterKit is designed for high-performance cluster validation and includes GPU communication tests such as GPU-GPU latency, GPU-GPU bandwidth, GPU-host latency, and NCCL bandwidth and latency. A reported
350 GB/s value in this type of question normally represents aggregate NCCL communication bandwidth across GPUs, not the raw line rate of a single 400G network port. If ClusterKit reports this result as part of a healthy NCCL bandwidth run, it indicates that the GPU communication path, RDMA stack, and fabric are performing as expected. Option A is incorrect because it incorrectly references HDR and assumes a single- link expectation above 390 GB/s. Option B incorrectly jumps to FEC tuning without evidence of link errors, retransmissions, or degraded counters. Option D is also incorrect because CPU stress testing does not validate NCCL GPU-to-GPU fabric bandwidth. In production validation, this result should still be considered alongside consistency, error counters, NCCL logs, topology, and reference values for the exact DGX, GPU, HCA, and switch configuration.

NEW QUESTION # 123
After a firmware upgrade on a DGX H100, the administrator notices that one GPU is not detected by the system. Which troubleshooting step should be performed first to identify the root cause?

- A. Remove the GPU from the system and replace it with a new one before any diagnostics.
- B. Ignore the issue and proceed with production workloads if the other GPUs are operational.
- C. Review firmware update logs and run nvsm show health to check for hardware or firmware errors on the affected GPU.
- D. Immediately re-run the firmware upgrade on all system components.

Answer: C

Explanation:
The first step is to review the firmware update logs and run nvsm show health. After a DGX H100 firmware upgrade, a missing GPU can result from incomplete firmware activation, failed component update, PCIe enumeration failure, GPU tray communication issues, BMC inventory mismatch, or an actual hardware fault.
NVSM is the correct DGX platform-level health tool because it checks hardware state across GPUs, NVSwitch components, PCIe devices, storage, power, cooling, and system sensors. Firmware logs are equally important because they show whether each update completed successfully and whether a reboot, cold power cycle, BMC reset, or AC power cycle is still required. Replacing the GPU immediately is premature and may cause unnecessary downtime. Ignoring the issue is unsafe because production AI workloads expect all GPUs to be visible and healthy. Re-running firmware across all components without diagnosis can hide the original failure or introduce more risk. Proper bring-up practice is to collect evidence, verify hardware health, confirm firmware activation state, and then decide whether reseating, power cycling, reapplying firmware, or service escalation is required.

NEW QUESTION # 124
Given the following 'nvswitch-cli' output, what does the 'Link Speed' indicate, and what potential bottleneck might a low 'Link

Speed' suggest?

- A. It indicates the PCIe generation supported by the GPIJ; a low value suggests an outdated GPU.
- B. It indicates the effective bandwidth of the NVLink connection; a low value suggests a potential cable issue or misconfiguration.
- C. It indicates the NVLink protocol version; a low value suggests firmware incompatibility.
- D. It indicates the clock speed of the GPU memory; a low value suggests a memory bottleneck.
- E. It indicates the power consumption of the NVLink switch; a high value suggests overheating issues.

Answer: B

Explanation:
The 'Link Speed' in 'nvswitch-cli' output refers to the effective bandwidth of the NVLink connection between the GPUs and the switch. A low value compared to the expected speed indicates a potential problem with the NVLink cables, their connections, or misconfiguration that's preventing the link from operating at its full potential. It is not related to memory clock, PCIe, or NVLink protocol version but direct NVLink performance.

NEW QUESTION # 125
You are running a distributed training job across multiple nodes, using a shared file system for storing training dat a. You observe that some nodes are consistently slower than others in reading data. Which of the following could be contributing factors to this performance discrepancy? Select all that apply.

- A. Different CPU architectures on the nodes.
- B. Uneven data distribution across the storage nodes.
- C. Variations in the speed of the local temporary storage (e.g., /tmp) used for intermediate files.
- D. Insufficient RAM on the slower nodes for caching data.
- E. Network congestion between the slower nodes and the storage system.

Answer: B,D,E

Explanation:
Network congestion (A) can directly impact the data transfer rate between the slower nodes and the storage. IJneven data distribution (B) means some storage nodes are more heavily loaded, leading to slower response times for nodes accessing data on those overloaded nodes. Insufficient RAM (D) limits the amount of data that can be cached locally, forcing more frequent reads from the slower storage system. CPU architecture (C) primarily affects compute performance, not 1/0. The speed of /tmp (E) is relevant if the training job uses local storage extensively for temporary files, but the question focuses on reading training data from the shared file system.

NEW QUESTION # 126
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