

# NVIDIA NCP-AII New Study Guide, NCP-AII Test Sample Questions



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## NVIDIA AI Infrastructure Sample Questions (Q165-Q170):

### NEW QUESTION # 165

You're setting up a BlueField-3 DPIJ to offload storage virtualization tasks. Specifically, you want to use SPDK (Storage Performance Development Kit) on the DPIJ. What are the MINIMUM required steps to enable SPDK on the BlueField-3 after the DPIJ has been flashed with the appropriate OS image? (Select TWO)

- A. Download and compile the SPDK source code directly on the DPU.
- B. Configure the network interfaces on the DPIJ to support RDMA or NVMe-oF, depending on the desired storage protocol.
- C. **Configure the Huge Pages settings in the DPU's kernel to allocate sufficient memory for SPDK.**
- D. **Install the SPDK packages using the DPU's package manager (e.g., 'apt install spdak').**
- E. Enable the SPDK service using 'systemctl enable spdak' and 'systemctl start spdak'.

**Answer: C,D**

Explanation:

The minimum steps involve installing the SPDK packages using the DPU's package manager, assuming prebuilt packages are available, and configuring Huge Pages. SPDK relies heavily on Huge Pages for memory management. While configuring network interfaces and starting services are important, installing SPDK and configuring Huge Pages are required first steps. Downloading and compiling from source might be necessary in some cases but not minimally required if packages are available.

### NEW QUESTION # 166

Your AI training pipeline involves a pre-processing step that reads data from a large HDF5 file. You notice significant delays during this step. You suspect the HDF5 file structure might be contributing to the slow read times. What optimization technique is MOST likely to improve read performance from this HDF5 file?

- A. Converting the HDF5 file to a CSV file.
- B. Storing the HDF5 file on a network file system like NFS.
- C. **Reorganizing the HDF5 file to improve data contiguity and chunking.**
- D. Compressing the HDF5 file using gzip.
- E. Encrypting the HDF5 file for enhanced security.

**Answer: C**

Explanation:

Reorganizing the HDF5 file (option C) to improve data contiguity and chunking is the most effective optimization. HDF5 performance is highly dependent on how the data is laid out within the file. Contiguous data and optimal chunk sizes allow for more efficient I/O operations. Converting to CSV (A) loses the hierarchical structure of HDF5. Storing on NFS (B) adds network overhead. Compression (D) can reduce storage space but increases decompression overhead. Encryption (E) adds overhead without improving read performance.

### NEW QUESTION # 167

You have configured MIG on your A100 GPU, creating several MIG instances. You now want to allocate a specific MIG instance to a Docker container. How would you specify the necessary device option when running the 'docker run' command to ensure the container uses only that MIG instance? Assuming the MIG instance UUID is GPU-xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxxxxxx

- A. docker run -gpus all.
- B. docker run -nvidia-visible-devices GPU-xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxxxxxx
- C. **docker run -gpus device=GPU-xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxxxxxx ...**
- D. docker run -runtime=nvidia --device=GPU-xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxxxxxx ...
- E. docker run -device=/dev/nvidia0 .

**Answer: C**

Explanation:

The correct way to specify a specific MIG instance for a Docker container is using the '-gpus device=' option with the MIG instance UUID. This ensures the container only has access to the designated MIG instance. '-gpus all' grants access to all GPUs. '-device=/dev/nvidiaC' provides access to the entire GPU. '--runtime=nvidia' is required for NVIDIA GPU support but doesn't specify a particular instance. There is no option 'unvidia-visible-devices'.

**NEW QUESTION # 168**

You're troubleshooting a DGX-I server exhibiting performance degradation during a large-scale distributed training job. 'nvidia-smi' shows all GPUs are detected, but one GPU consistently reports significantly lower utilization than the others. Attempts to reschedule workloads to that GPU frequently result in CUDA errors. Which of the following is the MOST likely cause and the BEST initial troubleshooting step?

- A. A driver issue affecting only one GPU; reinstall NVIDIA drivers completely.
- **B. A hardware fault with the GPU, potentially thermal throttling or memory issues; run 'nvidia-smi -i -q' to check temperatures, power limits, and error counts.**
- C. Power supply unit (PSU) overload, causing reduced power delivery to that GPU; monitor PSU load and check PSU specifications.
- D. Insufficient cooling in the server rack; verify adequate airflow and cooling capacity for the rack.
- E. A software bug in the training script utilizing that specific GPU's resources inefficiently; debug the training script.

**Answer: B**

Explanation:

While all options are possibilities, the consistently lower utilization and CUDA errors point strongly to a hardware fault. Running 'nvidia-smi -i -q' provides detailed telemetry data, including temperature, power limits, and ECC error counts, which are crucial for diagnosing GPU hardware issues.

**NEW QUESTION # 169**

You are tasked with validating the NVLink performance between GPUs in an NVIDIA DGXAI 00 system. Which tool is the most appropriate for measuring the bandwidth and latency of NVLink interconnections under a synthetic workload?

- A. memtest86+
- **B. NCCL tests (e.g., nccl-tests/net\_send\_recv)**
- C. iostat
- D. dmesg
- E. nvidia-smi

**Answer: B**

Explanation:

NCCL tests, specifically, are designed for benchmarking the communication performance between GPUs using NVLink. 'nvidia-smi' provides GPU monitoring information but not detailed bandwidth/latency tests. 'iostat' is for I/O statistics. 'memtest86' tests system memory. 'dmesg' displays kernel messages.

**NEW QUESTION # 170**

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