

NCP-AII Exam Study Guide & 2026 Realistic NVIDIA NVIDIA AI Infrastructure Study Material



NVIDIA NCP-AII NVIDIA AI Infrastructure

Questions & Answers PDF
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NVIDIA AI Infrastructure Sample Questions (Q287-Q292):

NEW QUESTION # 287

You are tasked with replacing a redundant power supply unit (PSU) in a GPU server. The server has two 2000W PSUs. One PSU has failed, but the server is still running. Which of the following actions is the safest and most efficient way to replace the faulty PSU?

- A. Replace the faulty PSU, then reboot the server to ensure the new PSU is working.
- B. Hot-swap the faulty PSU with a new one while the server is running.
- C. Wait for a scheduled maintenance window to power down the server and replace the PSU.
- D. Immediately power down the server and replace the faulty PSU.
- E. Document the failure and wait until the remaining PSU fails before taking action.

Answer: B

Explanation:

Hot-swapping is the designed method for replacing redundant PSUs in many server systems. This allows the server to remain operational while the faulty PSU is replaced, minimizing downtime. Powering down the server immediately is unnecessary and causes downtime. Waiting for a maintenance window or until the remaining PSU fails increases the risk of a complete server outage.

NEW QUESTION # 288

You have a server with two NVIDIA GPUs connected via NVLink. You want to verify that NVLink is functioning correctly. Which command(s) or tool(s) can you use to check the NVLink status and bandwidth?

- A. 'nvidia-smi nvlink -statue'
- B. 'nvcc -version'
- C. 'nvidia-settings' (GUI tool)
- D. 'nvidia-smi topo -m'
- E. 'lspci'

Answer: A,D

Explanation:

'nvidia-smi nvlink -statuS' provides a direct overview of the NVLink status, including link speed and errors. 'nvidia-smi topo' shows the topology of the GPUs and how they are connected, including NVLink connections. 'lspci' lists PCI devices but doesn't provide NVLink-specific information. 'nvcc -version' checks the CUDA compiler version. 'nvidia-settings' is a GUI tool that can display some information, but it's less precise than 'nvidia-smi' for NVLink status.

NEW QUESTION # 289

You are designing an AI server infrastructure using NVIDIA HGX A100 modules. The server's power supply units (PSUs) are configured in a redundant (N+1) setup. The individual PSUs are rated for 3000W each, and the server contains three PSUs. If the expected peak power consumption of the HGX A100 modules and other components is 5500W, what is the safety margin (in Watts) in the power budget?

- A. 9000W
- B. 5000W
- C. 3500W
- D. 500W
- E. 0W

Answer: D

Explanation:

With N+1 redundancy and three 3000W PSUs, the total available power is $3 \times 3000W = 6000W$ (N+1 means the system can tolerate one PSU failure). The safety margin is $6000W - 5500W = 500W$.

NEW QUESTION # 290

When installing multiple NVIDIA GPUs, which of the following factors are MOST important to consider regarding PCIe slot configuration?
(Choose two)

- A. Ensure each GPU is installed in a slot with sufficient PCIe lanes (e.g., x16).
- B. Ensure all GPUs have the same PCIe generation (e.g. Gen4).
- C. Ensure all GPUs are installed in slots of the same color.
- D. Install the GPUs in the lowest numbered slots first.
- E. Ensure the PCIe slots are directly connected to the CPU for optimal bandwidth.

Answer: A,E

Explanation:

The number of PCIe lanes directly impacts bandwidth. Direct CPU connection minimizes latency. Slot color and numbering are usually irrelevant. Same PCIe Gen isn't critical as long as minimum requirements are met.

NEW QUESTION # 291

You are deploying a new NVLink Switch based cluster. The GPUs are installed in different servers, but need to be configured to utilize NVLink interconnect. Which of the following should be performed during the installation phase to confirm correct configuration?

- A. Verify that GPUDirect RDMA is enabled and functioning correctly.
- B. Run NCCL tests to verify the GPU-to-GPU bandwidth and latency between servers.
- C. Check that the 'nvidia-smi' command shows the correct NVLink topology.
- D. Run standard TCP/IP network bandwidth tests to check inter-server communication.
- E. All the GPU's are in the same IP subnet

Answer: A,B,C

Explanation:

NCCL tests are specifically designed to test GPU-to-GPU communication. Ensuring GPUDirect RDMA is functioning is essential for low-latency communication. 'nvidia-smi' should display the NVLink topology. TCP/IP tests do not test the NVLink connection. It does not matter if GPUs on different servers are in the same IP subnet as NVLink communication occur directly between the GPUs using RDMA mechanism. Subnetting affects traditional networking layer communication, but not low-level device communication.

NEW QUESTION # 292

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