

NVIDIA NCP-AII Latest Exam Fee - NCP-AII Exam Topic



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No doubt the NVIDIA AI Infrastructure (NCP-AII) certification is one of the most challenging certification exams in the market. This NCP-AII certification exam gives always a tough time to NVIDIA AI Infrastructure (NCP-AII) exam candidates. The Test4Engine understands this hurdle and offers recommended and real NCP-AII Exam Practice questions in three different formats. These formats hold high demand in the market and offer a great solution for quick and complete NVIDIA AI Infrastructure (NCP-AII) exam preparation.

NVIDIA AI Infrastructure Sample Questions (Q178-Q183):

NEW QUESTION # 178

After configuring MIG on an NVIDIA A100 GPU, you run 'nvidia-smi' and observe that all MIG instances are in the 'Disabled' state.

Which of the following are potential reasons for this issue? (Select all that apply)

- A. The GPU is not in MIG mode.
- B. The MIG instances are correctly configured but have not been allocated to any processes.
- C. The system's power supply is insufficient.
- D. The 'nvidia-persistenced' service is not running.
- E. The necessary NVIDIA drivers are not installed or are incompatible with the GPU.

Answer: A,D,E

Explanation:

MIG instances being in a 'Disabled' state indicates a fundamental problem with the MIG configuration. Incompatible drivers (A) will prevent the instances from being properly initialized. If the GPU is not explicitly placed into MIG mode (B), no MIG instances will be available. The 'nvidia-persistenced' service (D) ensures that driver state persists across reboots, and its absence can cause MIG instances to revert to a disabled state. While unallocated instances (C) will exist, they should be in an 'Idle' state, not 'Disabled'. An insufficient power supply (E) might prevent the GPU from functioning correctly, but it's less likely to specifically cause a 'Disabled' MIG state.

NEW QUESTION # 179

You are installing four NVIDIA A100 GPUs in a server, and after installation, you observe that the PCIe link speed for one of the GPUs is running at x8 instead of the expected x16. What could be the POSSIBLE causes for this reduced PCIe link speed?

- A. The CPU does not have enough PCIe lanes to support all GPUs at x16.
- B. The GPU is faulty.
- C. The BIOS/UEFI is configured to limit the PCIe link speed for that slot.
- **D. All of the above**
- E. The PCIe slot is only wired for x8 speed.

Answer: D

Explanation:

A reduced PCIe link speed can result from multiple factors: a faulty GPU, insufficient PCIe lanes from the CPU, the physical wiring of the PCIe slot, or a BIOS/UEFI configuration limiting the speed. All these are potentially viable cause. Thus answer E is correct.

NEW QUESTION # 180

You are deploying a security application that leverages the BlueField DPIJ to perform deep packet inspection (DPI) on network traffic.

Your application requires access to the raw packet data, including the Ethernet headers. Which of the following programming models or APIs is most suitable for accessing raw packet data on the BlueField DPU with minimal overhead?

- A. Using the 'tcpdump' command and parsing its output.
- B. Using standard Linux socket APIs (e.g., 'socket()', 'recvfrom()') in user space.
- C. Using libpcap to capture packets from the network interface.
- **D. using DPDK (Data Plane Development Kit) with the BlueField DPU's PMD (Poll Mode Driver).**
- E. Using Netfilter hooks in the Linux kernel to intercept packets.

Answer: D

Explanation:

DPDK provides a framework for high-performance packet processing in user space, bypassing the kernel's networking stack. The BlueField DPU's PMD (Poll Mode Driver) allows DPDK applications to directly access the network interface with minimal overhead. This is ideal for DPI applications that need to process a large volume of packets at high speed. Standard socket APIs and Netfilter hooks involve kernel intervention, which can introduce significant overhead. Libpcap is a packet capture library, not designed for high-performance packet processing. 'tcpdump' is a command-line tool, not a programming API.

NEW QUESTION # 181

You are monitoring a server with 8 GPUs used for deep learning training. You observe that one of the GPUs reports a significantly lower utilization rate compared to the others, even though the workload is designed to distribute evenly. 'nvidia-smi' reports a persistent "XID 13" error for that GPU. What is the most likely cause?

- A. An incorrect CUDA version installed.
- B. Insufficient system memory preventing data transfer to that GPU.
- **C. A hardware fault within the GPU, such as a memory error or core failure.**
- D. The GPU's compute mode is set to 'Exclusive Process'.
- E. A driver bug causing incorrect workload distribution.

Answer: C

Explanation:

XID 13 errors in 'nvidia-smi' typically indicate a hardware fault within the GPU. Driver bugs or memory issues would likely cause different error codes or system instability across multiple GPUs. CUDA version mismatch might prevent the application from running altogether, but is less likely to lead to a specific XID error on a single GPU. Exclusive Process mode will lead to it being used by a different process but not necessarily cause that XID error.

NEW QUESTION # 182

You are tasked with setting up network fabric ports to connect several servers, each with multiple NVIDIA GPUs, to an InfiniBand switch. Each server has two ConnectX-6 adapters. What is the best strategy to maximize bandwidth and redundancy between the servers and the InfiniBand fabric?

- A. Connect both adapters from each server to the same switch and configure link aggregation (LACP or static LAG) on both the server and the switch.
- B. Connect one adapter from each server to one switch, and the second adapter to a different switch, without link aggregation.
- C. Connect only one adapter from each server to the switch to minimize cable clutter.
- D. Connect both adapters from each server to the same switch, but do not configure link aggregation.
- **E. Connect one adapter from each server to one switch, and the second adapter to a different switch, and configure multi-pathing on the servers.**

Answer: E

Explanation:

Connecting each adapter to a different switch and configuring multi-pathing provides the highest level of bandwidth and redundancy. Link aggregation to the same switch improves bandwidth but doesn't provide redundancy if that switch fails. Connecting only one adapter obviously limits bandwidth. Multi-pathing allows the servers to use both adapters simultaneously, increasing bandwidth, and provides automatic failover if one of the switches or links fails.

NEW QUESTION # 183

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The NVIDIA NCP-AII certification exam is a crucial part of career development in the tech sector. Cracking the NVIDIA AI Infrastructure (NCP-AII) exam strengthens your chances of landing high-paying jobs and promotions. Yet, preparing for the NCP-AII Exam can be challenging, and many working applicants struggle to find NCP-AII practice test questions they require to be successful in their pursuit.

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