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100% Pass 2026 NCP-AII: Trustable Practice NVIDIA AI Infrastructure Exam

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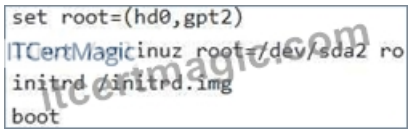
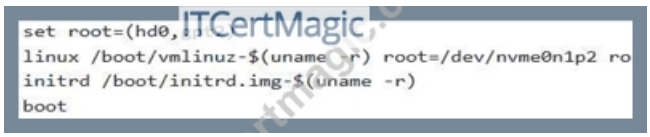
NVIDIA AI Infrastructure Sample Questions (Q41-Q46):

NEW QUESTION # 41
You have a BlueField-2 DPU running Ubuntu. After upgrading the MLNX OFED drivers, the DPU fails to boot properly. You are presented with a GRUB prompt. Which sequence of commands is most likely to help you boot into a working kernel?

- A. 

- B.

- C.

- D. 

- E.

Answer: E

Explanation:
When a boot fails after a driver upgrade, it's often because the new kernel/initrd is faulty. The most likely solution is to boot into the previous , known-good kernel. Option C attempts this by specifying '-old' in the kernel and initrd filenames, attempting to load the older, hopefully functional, kernel. It assumes the root partition is /dev/sda2 but is booting an older kernel. Option A uses '$(uname -r)' which likely resolves to the problematic kernel that caused the failure. Option B lacks version information and may also load a broken kernel. Option D uses /dev/nvme0n1p2, which might be incorrect for the root partition on the BlueField. Option E will try to load grub normally, which might fail again.

NEW QUESTION # 42
You're deploying a BlueField-2 DPU in a cloud environment and need to ensure the integrity of the DPU's firmware. You want to verify that the firmware hasn't been tampered with. Which of the following methods provides the strongest level of assurance for firmware integrity?

- A. Checking the file size of the firmware image against a known good value.
- B. Comparing the firmware version reported by the DPU with the version listed in the NVIDIA release notes.
- C. Checking the MD5 checksum of the firmware image against a known good value.
- D. Verifying the SHA256 checksum of the firmware image against a known good value provided by NVIDIA.
- E. Using a digitally signed firmware image and verifying the signature using NVIDIA's public key.

Answer: E

Explanation:
Digitally signed firmware provides the strongest guarantee of integrity. The signature verifies that the firmware hasn't been tampered with since it was signed by NVIDIA. SHA256 checksums are good, but digital signatures are cryptographically stronger. MD5 checksums are considered weak and easily compromised. Firmware version and file size offer minimal assurance against sophisticated attacks.

NEW QUESTION # 43
Which of the following storage technologies are most suitable for storing large training datasets used in deep learning, considering both performance and cost?

- A. High-performance NVMe SSDs in a local RAID configuration
- B. SATA HDDs in a network-attached storage (NAS) configuration

- C. Tape backup systems
- D. A parallel file system (e.g., BeeGFS, Lustre) deployed on NVMe SSDs
- E. Object storage (e.g., AWS S3, Azure Blob Storage) accessed directly from the training nodes

Answer: D

Explanation:
NVMe SSDs in a local RAID offer high performance and relatively low latency, making them suitable for data that needs to be accessed quickly. Parallel file systems deployed on NVMe SSDs provide the highest performance and scalability, especially for large datasets accessed concurrently by multiple training nodes. Object storage can be used for initial data ingest or archival but is generally slower than local or parallel file systems for training. SATA HDDs and Tape backup systems are a low performing option for this case.

NEW QUESTION # 44
You are tasked with ensuring optimal power efficiency for a GPU server running machine learning workloads. You want to dynamically adjust the GPU's power consumption based on its utilization. Which of the following methods is the MOST suitable for achieving this, assuming the server's BIOS and the NVIDIA drivers support it?

- A. Manually set the GPU's power limit using 'nvidia-smi -pl and create a script to monitor utilization and adjust the power limit periodically.
- B. Configure the server's BIOS/UEFI to use a power-saving profile, which will automatically reduce the GPU's power consumption when idle.
- C. Use NVIDIA's Data Center GPU Manager (DCGM) to monitor GPU utilization and dynamically adjust the power limit based on a predefined policy.
- D. Enable Dynamic Boost in the NVIDIA Control Panel (if available), which will automatically allocate power between the CPU and GPU based on their current needs.
- E. Disable ECC (Error Correcting Code) on the GPU to reduce power consumption.

Answer: C

Explanation:
DCGM provides the most comprehensive and automated solution for dynamic power management. It can monitor GPIJ utilization in real-time and adjust the power limit based on predefined policies, ensuring optimal power efficiency without manual intervention. Manually adjusting the power limit is possible but requires scripting and continuous monitoring. Dynamic Boost is typically for laptops, and BIOS power profiles may not be fine-grained enough. Disabling ECC reduces power but compromises data integrity.

NEW QUESTION # 45
A user reports that their deep learning training job is crashing with a 'CUDA out of memory' error, even though 'nvidia-smi' shows plenty of free memory on the GPU. The job uses TensorFlow. What are the TWO most likely causes?

- A. TensorFlow is allocating memory on the CPU instead of the GPU.
- B. TensorFlow is fragmenting GPU memory, making it difficult to allocate contiguous blocks.
- C. The CUDA VISIBLE DEVICES environment variable is not set correctly.
- D. The TensorFlow version is incompatible with the installed NVIDIA driver.
- E. The system's swap space is full, preventing memory from being allocated.

Answer: B,C

Explanation:
'CUDA out of memory errors, despite seemingly available GPU memory, often indicate memory fragmentation or improper GPU assignment. TensorFlow can fragment GPU memory, leading to allocation failures even if sufficient total memory is available. The variable controls which GPUs TensorFlow can access. If it's not set or is set incorrectly, TensorFlow might be trying to allocate memory on a non-existent or unavailable GPU. While TensorFlow version incompatibilities can cause issues, they are less likely to directly manifest as 'CUDA out of memory' errors. TensorFlow typically prioritizes GPU memory allocation if configured correctly.

NEW QUESTION # 46
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