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NVIDIA NCP-AII Exam

NVIDIA Certified Professional AI Infrastructure

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NVIDIA NCP-AII Exam Syllabus Topics:

Topic	Details
Topic 1	• System and Server Bring-up: Covers end-to-end physical setup of GPU-based AI infrastructure, including BMC • OOB • TPM configuration, firmware upgrades, hardware installation, and power and cooling validation to ensure servers are workload-ready.
Topic 2	• Control Plane Installation and Configuration: Covers deploying the software stack including Base Command Manager, OS, Slurm • Enroot • Pyxis, NVIDIA GPU and DOCA drivers, container toolkit, and NGC CLI.
Topic 3	• Troubleshoot and Optimize: Covers identifying and replacing faulty hardware components such as GPUs, network cards, and power supplies, along with performance optimization for AMD • Intel servers and storage.
Topic 4	• Physical Layer Management: Covers configuring BlueField network platform devices and setting up Multi-Instance GPU (MIG) partitioning for AI and HPC workloads.
Topic 5	• Cluster Test and Verification: Covers full cluster validation through HPL and NCCL benchmarks, NVLink and fabric bandwidth tests, cable and firmware checks, and burn-in testing using HPL, NCCL, and NeMo.

NVIDIA AI Infrastructure Sample Questions (Q30-Q35):

NEW QUESTION # 30

After successfully installing the NVIDIA Container Toolkit and configuring the Docker runtime, you attempt to run a container that requires GPU access. However, the container fails to start with an error indicating that no GPUs are detected. You've verified that 'nvidia-smi' works on the host. Which of the following could be potential causes for this issue? (Select all that apply)

- A. The NVIDIA drivers are not compatible with the kernel version running on the host.
- B. The container image itself is missing the necessary CUDA libraries.
- C. The Docker daemon was not restarted after configuring the NVIDIA runtime.
- D. The NVIDIA Container Toolkit package is corrupted and needs to be reinstalled.
- E. The '-gpus all' flag was not included when running the 'docker run' command.

Answer: A,C,E

Explanation:

Several factors can cause this issue. A driver-kernel incompatibility (A) prevents the NVIDIA drivers from properly communicating with the hardware. Forgetting to restart the Docker daemon (B) means the configuration changes applied by 'nvidia-ctl' are not active. The '-gpus all' (or equivalent) flag (C) is mandatory to explicitly request GPU resources for the container. Corrupted toolkit (D) would likely present installation failures earlier. Missing CUDA libraries (E) would likely lead to runtime errors within the container, not a failure to detect the GPUs in the first place.

NEW QUESTION # 31

A DGX A100 server with dual power supplies reports a critical power event in the BMC logs. One PSU shows a 'degraded' status, while the other appears normal. What immediate actions should you take to ensure continued operation and prevent data loss?

- A. Hot-swap the degraded PSU with a replacement unit.
- B. Reduce the GPU power limit using 'nvidia-smi' to decrease the overall power consumption of the server.
- C. Immediately shut down the server gracefully to prevent further damage to the faulty PSU.
- D. Monitor the remaining PSU's load and temperature closely; if stable, continue operation until a scheduled maintenance window.
- E. Migrate all workloads to other servers in the cluster to minimize the impact of a potential complete PSU failure.

Answer: A,E

Explanation:

Hot-swapping the degraded PSU (B) restores redundancy. Migrating workloads (E) minimizes the risk of data loss or service interruption if the remaining PSU fails. Shutting down the server (A) causes unnecessary downtime if hot-swapping is possible. Monitoring the remaining PSU (C) is a good practice, but it's not a replacement for restoring redundancy or mitigating risk. Reducing GPU power limits (D) may help prevent further strain but is a temporary solution that impacts performance.

NEW QUESTION # 32

You have a deep learning application that requires a specific version of the CUDA toolkit inside the container. How should you best ensure that the correct CUDA version is available within the container, considering the NVIDIA Container Toolkit is installed on the host?

- A. Use a base image (e.g., from NVIDIA NGC) that already includes the desired CUDA toolkit version. This approach provides a consistent and reproducible environment.
- B. Manually copy the necessary CUDA libraries from the host into the container using 'docker cp' before running the application.
- C. Use the nvidia-container-cli to modify the existing image to install the proper cuda version.
- D. Specify the desired CUDA version when running the container using the '-env' flag. The NVIDIA Container Toolkit will dynamically install the CUDA version during container startup.
- E. Install the required CUDA toolkit version directly on the host operating system. The NVIDIA Container Toolkit will automatically map it into the container.

Answer: A

Explanation:

The recommended approach is to use a base image that already contains the desired CUDA version. NVIDIA provides pre-built images on NGC (NVIDIA GPU Cloud) that are specifically designed for deep learning and include the appropriate CUDA versions and other dependencies. Installing CUDA on the host and expecting it to be magically mapped (A) is not reliable. The NVIDIA Container Toolkit doesn't install CUDA on the fly (B). Manually copying libraries (D) is error-prone and doesn't handle dependencies well. While technically possible, using nvidia-container-cli to modify the image is more complex than using a base image.

NEW QUESTION # 33

Which of the following are key benefits of using NVIDIA Spectrum-X switches in an AI infrastructure compared to traditional Ethernet switches? (Select THREE)

- A. Advanced telemetry and monitoring capabilities for network performance optimization.
- B. Hardware-based acceleration for collective communication operations used in distributed AI training.
- C. Support for RoCE (RDMA over Converged Ethernet) and InfiniBand protocols, enabling high-bandwidth, low-latency communication.
- D. Lower cost per port.
- E. Native support for IPv6.

Answer: A,B,C

Explanation:

Spectrum-X switches are designed for high-performance computing and AI workloads. They support RoCE and InfiniBand for low-latency communication, offer advanced telemetry for network optimization, and include hardware-based acceleration for collective communication operations, improving the efficiency of distributed AI training. While Spectrum-X supports IPv6, this is also a common feature in modern Ethernet switches. Spectrum-X switches typically have a higher cost per port compared to basic Ethernet switches due to their advanced features and performance.

NEW QUESTION # 34

Which of the following methods are considered the most reliable ways to install NVIDIA drivers on a production server running a stable Linux distribution (e.g., RHEL, CentOS, or Ubuntu LTS) to minimize downtime and ensure system stability?

- A. Using the distribution's package manager (e.g., 'apt' , 'yum' , or 'dnf') to install NVIDIA drivers from the official or curated repositories.
- B. Utilizing NVIDIA's container toolkit and running all AI workloads inside containers to isolate the driver dependencies.
- C. Downloading and running the latest '.run' installer from the NVIDIA website without any package manager integration.
- D. Using NVIDIA's data center driver program.
- E. Building custom NVIDIA driver packages from source code to match the specific kernel version and system libraries.

Answer: A,B,D

Explanation:

Using the distribution's package manager is generally the safest and most reliable method for installing NVIDIA drivers. This approach ensures that dependencies are managed correctly and updates are handled through the system's standard update mechanisms. Containerization isolates the driver and application dependencies. Nvidia's data center driver program provides enterprise-grade support and reliability. Running the .run installer directly can sometimes lead to dependency issues and conflicts. Building from source is complex and not generally recommended for production environments.

NEW QUESTION # 35

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