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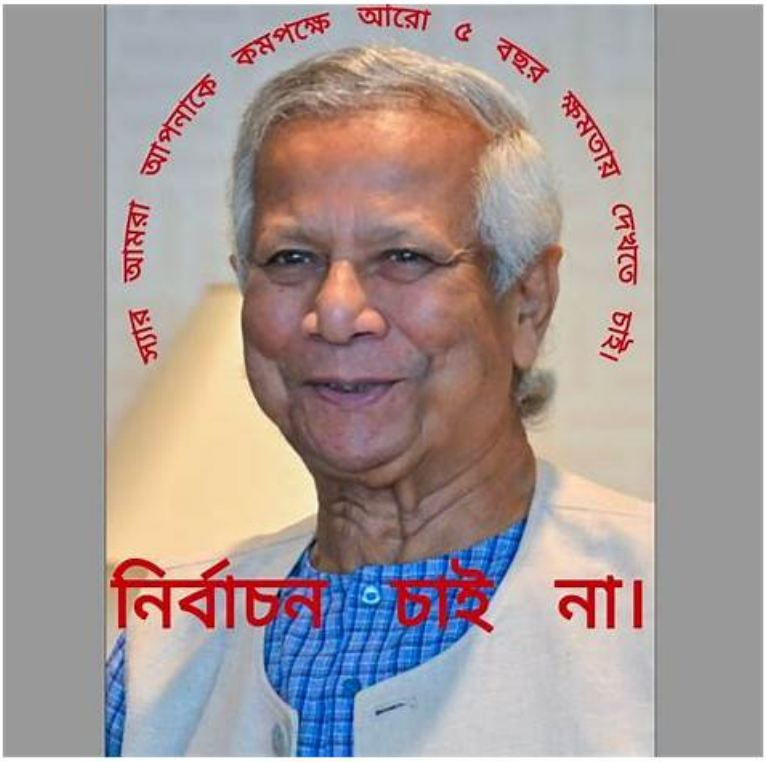

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NVIDIA NCP-AII Exam Syllabus Topics:

Topic	Details
Topic 1	• 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.
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	• 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 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	• 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.

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NVIDIA AI Infrastructure Sample Questions (Q73-Q78):

NEW QUESTION # 73
Which of the following are valid methods for verifying the health and connectivity of InfiniBand links in an NCP-AII environment? (Select TWO)

- A. Checking the system logs (' /var/log/messages' or equivalent) for any InfiniBand-related error messages.
- B. Using 'netstat' to check TCP connections.
- C. Using 'ping' to test basic IP connectivity over the InfiniBand interface.
- D. Using 'sminfo' to query the Subnet Manager for network topology and status information.
- E. Using 'ibstat' to check the link state, physical state, and other relevant parameters of InfiniBand ports.

Answer: D,E

Explanation:
'ibstat' is a command-line utility specifically designed for checking the status of InfiniBand ports. 'sminfo' allows you to communicate with the Subnet Manager and retrieve network topology and status. While 'ping' can verify IP connectivity over InfiniBand, it doesn't directly assess the health of the InfiniBand link itself. Checking system logs is a useful supplementary task but isn't the primary method.

NEW QUESTION # 74
You are tasked with installing the NGC CLI on a host that does not have direct internet access. You have downloaded the NGC CLI package to a local repository. Which of the following steps are required to successfully install and configure the NGC CLI in this offline environment?

- A. Only copying the whl file is sufficient, NGC CLI dependencies are always local
- B. Configure the NGC CLI to point to your local package repository by setting the environment variable.
- C. Run 'ngc config set' to configure the API key, pointing to a local configuration file.
- D. Transfer the NGC CLI package to the host and install it using 'pip install .whl'.
- E. Manually download and install all dependencies of the NGC CLI package using 'pip install --no-index --find-links=/path/to/dependencies .whl'.

Answer: B,C,D,E

Explanation:
In an offline environment, you need to install the package locally (A), configure the CLI to know where to find the package (B), manually install dependencies (C), and configure the API key (D). Option E is wrong because dependencies must be handled manually in the offline environment.

NEW QUESTION # 75
A server with 8 NVIDIAAIOO GPUs is experiencing an unexpected shutdown under heavy load. The IPMI logs show a 'Power Supply Deasserted' event immediately preceding the shutdown. After replacing the PSU, the issue persists. What is the MOST likely

cause of the continued shutdowns?

- A. Insufficient system memory (RAM).
- B. Network congestion causing system instability.
- C. Overcurrent protection (OCP) tripping due to excessive inrush current during GPU startup.
- D. Incompatible GPU driver version.
- E. A faulty CMOS battery.

Answer: C

Explanation:
The 'Power Supply Deasserted' event, even after replacing the PSIJ, strongly suggests that overcurrent protection (OCP) is being triggered. OCP is a safety mechanism that shuts down the PSU if it detects excessive current draw. This is particularly likely with multiple high- power GPUs, as the inrush current during startup can momentarily exceed the PSU's capacity. A driver issue or insufficient memory is less likely to cause this specific event.

NEW QUESTION # 76
A system administrator receives an alert about a potential hardware fault on an NVIDIA DGX A100. The GPU performance seems degraded, and the system fans are operating loudly. What step should be recommended to identify and troubleshoot the hardware fault?

- A. Power drain then restart the DGX and check if the performance degradation resolves.
- B. Run a deep learning workload to stress test the GPUs and check whether the issue persists.
- C. Check the NVIDIA System Management Interface (nvidia-smi) for GPU status and temperatures.
- D. Increase the fan speed to maximum and check whether the performance improves.

Answer: C

Explanation:
When a DGX system exhibits high fan speeds and performance degradation, it is typically engaging in Thermal Throttling. High-performance GPUs like the A100 or H100 will automatically reduce their clock speeds (and thus performance) if they exceed safe temperature thresholds. The first and most critical diagnostic step is to run nvidia-smi. This utility provides immediate, real-time telemetry on GPU temperatures, power draw, and "Clocks Throttle Reasons." By reviewing the output, an administrator can see if "Thermal" is listed as the reason for reduced clocks. This identifies whether the issue is environmental (blocked airflow/hot aisle temperature) or hardware-specific (a failed GPU thermal interface or a dead internal fan). Running more workloads (Option A) would exacerbate the heat, while a power drain (Option C) is a
"last resort" that doesn't provide diagnostic data. nvidia-smi provides the evidentiary data needed to determine if an RMA (Return Merchandise Authorization) is required for the GPU tray.

NEW QUESTION # 77
You are running a Docker container with GPU support using 'nvidia-docker run'. The containerized application unexpectedly fails to detect the GPU. What is the most likely cause?

- A. The =gpus all' flag was not specified when running the container.
- B. The Docker image does not include the CUDA toolkit.
- C. The NVIDIA drivers are not installed on the host system.
- D. The application within the container is not linked against the CUDA libraries.
- E. The Docker daemon is not configured to use the NVIDIA runtime.

Answer: A

Explanation:
When running containers that need GPU access, it's essential to explicitly request the GPU resources. The '-gpus all' or '-gpus device=..: flag passed to 'docker run' with the NVIDIA runtime allows the container access to the available GPUs. Without this flag, the container operates as if no GPUs are available. Options A, B, C and D, while potentially problematic, are not the most likely cause if 'nvidia-docker run' was used previously.

NEW QUESTION # 78

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