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NVIDIA NCP-AII NVIDIA AI Infrastructure

Questions & Answers PDF
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NVIDIA NCP-AII Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">Physical Layer Management: Covers configuring BlueField network platform devices and setting up Multi-Instance GPU (MIG) partitioning for AI and HPC workloads.
Topic 2	<ul style="list-style-type: none">Troubleshoot and Optimize: Covers identifying and replacing faulty hardware components such as GPUs, network cards, and power supplies, along with performance optimization for AMDIntel servers and storage.
Topic 3	<ul style="list-style-type: none">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 4	<ul style="list-style-type: none">System and Server Bring-up: Covers end-to-end physical setup of GPU-based AI infrastructure, including BMCOOBTPM configuration, firmware upgrades, hardware installation, and power and cooling validation to ensure servers are workload-ready.
Topic 5	<ul style="list-style-type: none">Control Plane Installation and Configuration: Covers deploying the software stack including Base Command Manager, OS, SlurmEnrootPyxis, NVIDIA GPU and DOCA drivers, container toolkit, and NGC CLI.

NVIDIA AI Infrastructure Sample Questions (Q111-Q116):

NEW QUESTION # 111

A system administrator needs to validate a GPU-based server and ensure that no errors occur under load. What command should be used?

- A. stress-test --usage
- B. **nvsm show health**
- C. nvsm stress-test
- D. nvsm dump health

Answer: B

Explanation:

While there are many ways to stress a system, the verified method to check for errors under load in an NVIDIA DGX environment is to monitor the system using NVSM (NVIDIA System Management). Running `nvsm show health` is the standard command to verify that all hardware components—including GPUs, memory, and storage—are operating within their defined specifications. To truly ensure no errors occur

"under load," an administrator will typically run a workload (like HPL or NCCL tests) and concurrently run `nvsm show health` or `nvsm monitor` to check for real-time telemetry such as thermal throttling, PCIe errors, or power fluctuations. `nvsm show health` aggregates data from the BMC and the OS to provide a "Red/Green" status of the entire system. There is no standard command named `nvsm stress-test` (Option D) or `stress-test -- usage` (Option B) in the official NVIDIA DGX software stack.

NEW QUESTION # 112

An engineer wants to verify that an NVIDIA GPU is accessible inside a Docker container for running deep learning workloads. The NVIDIA Container Toolkit is installed on a machine with working NVIDIA drivers.

Which command demonstrates the correct way to run a container that can access all available GPUs?

- A. `docker run --rm --runtime=docker nvidia/cuda nvidia-smi`
- B. **`docker run --rm --gpus all nvidia/cuda:12.4.6-base-ubuntu22.04 nvidia-smi`**

- C. `docker run --rm nvidia/cuda:12.4.0-base-ubuntu22.04 nvidia-smi`
- D. `docker run --rm -it ubuntu:22.04 nvidia-smi`

Answer: B

Explanation:

The correct command is `docker run --rm --gpus all nvidia/cuda:12.4.6-base-ubuntu22.04 nvidia-smi`. With the NVIDIA Container Toolkit installed and Docker configured, the `--gpus all` flag is the standard way to expose all available NVIDIA GPUs to a container. Running `nvidia-smi` inside the CUDA base container confirms that the container can see the host GPU driver stack, GPU devices, and NVIDIA runtime integration. Option A is incorrect because `--runtime=docker` is not the correct NVIDIA runtime configuration and does not request GPU access. Option B uses a plain Ubuntu container, which normally lacks the NVIDIA user-space libraries needed to run `nvidia-smi`. Option D uses an NVIDIA CUDA image but does not include the `--gpus all` flag, so Docker will not automatically expose GPUs to the container. In NVIDIA AI infrastructure, this validation is a basic control-plane and container-runtime check before running AI workloads through Docker, Kubernetes, Slurm containers, or NVIDIA GPU Operator-managed environments.

NEW QUESTION # 113

You have an Intel Xeon Gold server with 2 NVIDIA Tesla V100 GPUs. After deploying your AI application, you observe that one GPU is consistently running at a significantly higher temperature than the other. What could be a plausible reason for this behavior?

- A. The ambient temperature in the server room is higher on one side of the rack.
- B. One GPU is defective and drawing excessive power.
- C. One GPU's driver version is outdated, leading to inefficient power management.
- D. The server's airflow is inadequate, causing poor cooling for one of the GPUs.
- E. The workload is not evenly distributed between the GPUs, causing one GPU to be more heavily utilized.

Answer: D,E

Explanation:

Uneven heat distribution often points to airflow problems or unbalanced workloads. Inadequate airflow can cause localized hotspots. Uneven workload distribution will naturally cause one GPU to work harder and generate more heat. While a defective GPU or driver issues are possibilities, they are less likely than airflow and workload imbalances in this scenario. High ambient temperature is also a contributing factor but less direct.

NEW QUESTION # 114

Your AI inference server utilizes Triton Inference Server and experiences intermittent latency spikes. Profiling reveals that the GPU is frequently stalling due to memory allocation issues. Which strategy or tool would be least effective in mitigating these memory allocation stalls?

- A. Enabling CUDA graph capture to reduce kernel launch overhead.
- B. Reducing the model's memory footprint by using quantization or pruning techniques.
- C. Increasing the GPU's TCC (Tesla Compute Cluster) mode priority.
- D. Using CUDA memory pools to pre-allocate memory and reduce allocation overhead during inference requests.
- E. Optimize the model using TensorRT.

Answer: C

Explanation:

CUDA memory pools directly address memory allocation overhead. CUDA graph capture reduces kernel launch overhead, which can indirectly reduce memory pressure. Model quantization/pruning reduces the overall memory footprint. Optimizing using TensorRT reduces memory footprint. Increasing TCC priority primarily affects preemption behavior and doesn't directly address memory allocation issues. Therefore it will have less impact than others.

NEW QUESTION # 115

You are configuring network fabric ports for NVIDIA GPUs in a server. The GPUs are connected to the network via PCIe. What is the primary factor that determines the maximum achievable bandwidth between the GPUs and the network?

- A. The speed of the system's hard drives or SSDs.

- B. The color of the Ethernet cables.
- C. The amount of system RAM.
- D. The clock speed of the CPU.
- E. The PCIe generation and number of lanes connecting the GPUs to the network adapter (e.g., PCIe 4.0 x16).

Answer: E

Explanation:

The PCIe generation (e.g., PCIe 4.0, PCIe 5.0) and the number of lanes (e.g., x8, x16) directly determine the maximum theoretical bandwidth available between the GPUs and the network adapter. Higher PCIe generations and more lanes provide greater bandwidth. For example, PCIe 4.0 x16 offers significantly more bandwidth than PCIe 3.0 x8. All other options are either irrelevant or have a negligible impact on this particular bottleneck.

NEW QUESTION # 116

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