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NVIDIA NCP-AII Exam Syllabus Topics:

Topic	Details
Topic 1	• 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 2	• 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 3	• Physical Layer Management: Covers configuring BlueField network platform devices and setting up Multi-Instance GPU (MIG) partitioning for AI and HPC workloads.
Topic 4	• 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 5	• 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.

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NVIDIA AI Infrastructure Sample Questions (Q99-Q104):

NEW QUESTION # 99

You are tasked with setting up High Availability (HA) for NVIDIA Base Command Manager (BCM) in a new GPU cluster. The cluster consists of a primary head node, a secondary head node, and several compute nodes. The requirements are automatic failover of BCM services, minimal disruption to workloads, and proper cluster health monitoring during and after installation. During your BCM HA installation and configuration process, which two of the following actions are mandatory for ensuring a robust and verified HA cluster configuration?

Pick the 2 correct responses below.

- A. Compute nodes must be powered on and performing work to initiate synchronization of the head nodes.
- B. During configuration, explicitly synchronize both the configuration and state data directories from the primary to the secondary head node to ensure consistency.
- C. Configure both head nodes to use independent static IP addresses for BCM services instead of relying on a shared virtual IP address.
- D. After configuration is complete, simulate a failover by stopping BCM services on the active head node to verify that all services are running on the secondary node with no interruption.
- E. Assign a floating Virtual IP address that can automatically migrate between the primary and secondary head nodes during failover.

Answer: D,E

Explanation:

A floating Virtual IP address is required because users, compute nodes, and management services need a consistent endpoint for the active BCM head node. NVIDIA DGX BasePOD HA documentation states that the external VIP is the IP address that should always be used to access the active head node after HA configuration is complete. The same HA workflow also verifies failover behavior after setup by checking HA status from both directions and confirming which head node is active. Therefore, a controlled failover validation is necessary to prove that the secondary head node can assume service responsibility. Compute nodes do not need to be powered on and running workloads during HA setup; NVIDIA documentation actually shows cluster nodes being powered off before HA configuration. Independent static IP addresses alone do not provide transparent service continuity because clients would need to reconnect manually.

Synchronization occurs as part of the HA setup workflow, but the best two answers for automatic failover and verified readiness are the floating VIP and failover validation.

NEW QUESTION # 100

You are an infrastructure engineer tasked with validating a new AI training cluster before releasing it to users. Your team wants to perform a NeMo burn-in to ensure both hardware and software are reliable and ready for production workloads. Which of the following actions are required as part of a proper NeMo burn-in process? (Choose two.)

- A. Download a pre-trained NeMo model and use it for a quick accuracy check on a user dataset, then consider the burn-in complete if results are reasonable.
- B. Configure a representative NeMo training or pretraining recipe and set up an executor to launch the job across intended nodes and GPUs.
- C. Run the configured NeMo training job repeatedly or for an extended duration, monitoring for errors, stalls, or performance drops across all GPUs and nodes.
- D. Test inference using the NeMo API and approve the environment if the model outputs valid predictions.

Answer: B,C

Explanation:

A proper NeMo burn-in uses a representative NeMo training or pretraining workload configured to run across the target GPUs and nodes. Running that workload for an extended duration while monitoring errors, stalls, GPU behavior, and performance stability

validates that the hardware, drivers, containers, networking, and software stack are production-ready.

NEW QUESTION # 101

You observe the following output from 'nvidia-smi' on a server running a large AI training job:

```
GPU 0: Tesla A100 (UUID: GPU-xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxxxxxxxx)
    Temperature: 85C
    Power Draw: 300W / 300W
    ClocksThrottleReasons: ThermalSlowdown: Active
```

What does the 'ClocksThrottleReasons: ThermalSlowdown: Active' indicate, and what immediate action should you take?

- A. The GPU is operating at its maximum power limit, and no action is needed.
- B. The ambient temperature in the server room is too low, causing the GPU to underperform.
- C. The GPU's power draw is exceeding its thermal design power (TDP). Reconfigure the power supply.
- **D. The GPU's clock speeds are being reduced to prevent overheating. Investigate the cooling system and reduce the GPU workload.**
- E. The GPU driver is outdated and needs to be updated to improve thermal management.

Answer: D

Explanation:

'ClocksThrottleReasons: ThermalSlowdown: Active' means the GPU is throttling its clock speeds because it's overheating. The immediate action is to investigate the cooling system (fans, liquid cooling, airflow) and potentially reduce the GPU workload to lower its temperature.

NEW QUESTION # 102

You are designing a large-scale AI training cluster spanning multiple racks. The networking topology necessitates both short-reach (within rack) and long-reach (inter-rack) connections. Which combination of cable types and transceivers is MOST cost-effective and suitable for this scenario, assuming a mix of 200GbE and 400GbE links?

- A. DAC cables for all intra-rack connections and FR4 transceivers with single-mode fiber for inter-rack connections.
- B. Passive copper cables for all intra-rack connections and ER4 transceivers with single-mode fiber for all inter-rack connections.
- C. AOC cables for all connections, both intra-rack and inter-rack.
- **D. DAC cables for all intra-rack connections, and a mix of SR4 and LR4 transceivers with multimode and single-mode fiber, respectively, for inter-rack connections.**
- E. DAC cables for all intra-rack connections and AOC cables for all inter-rack connections.

Answer: D

Explanation:

DAC cables are cost-effective and suitable for short-reach, high-bandwidth connections within a rack. For inter-rack connections, SR4 transceivers with multimode fiber (for shorter inter-rack links) and LR4 transceivers with single-mode fiber (for longer inter-rack links) provide a good balance of cost and performance. AOCs are generally more expensive than DACs. ER4 is overkill for many inter-rack scenarios and is more expensive than LR4.

NEW QUESTION # 103

You're working with a large dataset of microscopy images stored as individual TIFF files. The images are accessed randomly during a training job. The current storage solution is a single HDD. You're tasked with improving data loading performance. Which of the following storage optimizations would provide the GREATEST performance improvement in this specific scenario?

- A. Implementing data deduplication on the storage volume.
- B. Replacing the HDD with a RAID 5 array of HDDs.
- C. Compressing the TIFF files using a lossless compression algorithm.
- **D. Replacing the HDD with a single NVMe SS**
- E. Migrating the data to a large, sequential HDD.

Answer: D

Explanation:

Random access to numerous small files is a classic use case where SSDs excel due to their low latency. Replacing the HDD with an NVMe SSD (option D) will provide the most significant performance improvement. Data deduplication (A) saves storage space but doesn't directly improve random access speed. Migrating to a sequential HDD (B) is counterproductive for random access. RAID 5 (C) provides some performance improvement but not as much as an SSD. Compression (E) can reduce storage space but adds overhead during decompression.

NEW QUESTION # 104

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