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

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The NVIDIA AI Infrastructure (NCP-AII) certification exam is one of the top-rated career advancement certifications in the market. This NVIDIA AI Infrastructure (NCP-AII) exam dumps have been inspiring beginners and experienced professionals since its beginning. There are several personal and professional benefits that you can gain after passing the NVIDIA NCP-AII Exam. The validation of expertise, more career opportunities, salary enhancement, instant promotion, and membership of NVIDIA certified professional community.

NVIDIA NCP-AII Exam Syllabus Topics:

| Topic | Details |
|---------|--|
| Topic 1 | <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 AMD• Intel servers and storage. |
| Topic 2 | <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 3 | <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 4 | <ul style="list-style-type: none">• 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 5 | <ul style="list-style-type: none">• 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. |

NVIDIA AI Infrastructure Sample Questions (Q92-Q97):

NEW QUESTION # 92

You have a Kubernetes cluster with nodes running different versions of the NVIDIA driver. You need to ensure that your containerized AI applications are always compatible with the specific driver version running on the node where they are scheduled. How can you achieve this driver version compatibility in a cloud-native way?

- A. Use the NVIDIA driver capabilities to detect the driver version at runtime and dynamically load the correct libraries.
- **B. Use the NVIDIA Operator to automatically manage driver installations and updates on the nodes, ensuring a consistent driver version across the cluster.**
- C. Use a shared volume to mount drivers into a container.
- D. Manually create different container images for each driver version and use node selectors to schedule the correct image on the appropriate nodes.
- E. Implement a webhook that inspects the node labels and injects the appropriate NVIDIA libraries into the pod at runtime.

Answer: B

Explanation:

The NVIDIA Operator is designed to manage the lifecycle of NVIDIA drivers and related components within a Kubernetes cluster, including automated installations, updates, and version management. This ensures a consistent and compatible driver version across all nodes, simplifying application deployment and management. The operator is the cloud-native approach to managing the NVIDIA stack. Option A is manual and inflexible. Option B relies on proper NVIDIA Driver setup on the host. Option D is a complex undertaking. Option E is insecure.

NEW QUESTION # 93

A media company is developing an AI platform for video content analysis that requires storing and processing large volumes of unstructured video data. The platform must support high throughput for data ingestion and provide efficient access for real-time analytics. Given these requirements, which storage strategy should the company implement?

- A. Object storage for scalability and metadata management
- B. Block storage for low latency and high performance
- C. Tape storage for its cost-effectiveness and archival capabilities

- **D. File storage for hierarchical organization and easy navigation**

Answer: D

Explanation:

While object storage is excellent for massive scale and metadata, NVIDIA AI infrastructure best practices for training workloads—especially video analysis—heavily prioritize Parallel File Systems (PFS). Modern AI frameworks (PyTorch, TensorFlow) and NVIDIA's own SDKs (like DeepStream or NeMo) are optimized to read from POSIX-compliant file systems. For video content analysis, the training process involves "sharding" large video files and performing random-access reads across a massive dataset. A high-performance file system (such as Lustre, Weka, or IBM Storage Scale) provides the high throughput and low-latency metadata operations required to keep 8 or more H100 GPUs per node saturated with data. File storage allows for the hierarchical organization that data scientists use to manage datasets (e.g., /datasets/train/videos/) and supports GPUDirect Storage (GDS), which allows the GPU to pull data directly from the storage fabric into GPU memory, bypassing the CPU to maximize ingestion throughput.

NEW QUESTION # 94

You are tasked with troubleshooting a performance bottleneck in a multi-node, multi-GPU deep learning training job utilizing Horovod.

The training loss is decreasing, but the overall training time is significantly longer than expected. Which of the following monitoring approaches would provide the most insight into the cause of the bottleneck?

- A. Using 'nvidia-smi' on each node to monitor GPU utilization and memory usage.
- B. Monitoring network bandwidth utilization on each node using 'iftop' or 'iperf3'
- **C. Enabling Horovod's timeline and profiling features to visualize the communication patterns and identify synchronization bottlenecks.**
- D. Using Shtop' to monitor CPU utilization on each node.
- E. Analyzing the training loss curve to identify potential issues with the model architecture or hyperparameters.

Answer: C

Explanation:

Horovod's timeline and profiling tools are specifically designed to visualize communication patterns and identify bottlenecks in distributed training jobs. While 'nvidia-smi' and network monitoring can provide useful information, they don't give the holistic view of communication overhead that Horovod's tools provide. Loss curve analysis helps with model-related issues, not distributed training bottlenecks. 'htop' isn't related to network or GPU specific issues in distributed processing.

NEW QUESTION # 95

You're deploying BlueField OS to an Arm-based SmartNIC. After flashing the image, the system fails to boot and you observe a kernel panic related to device tree loading. Which of the following is the most likely cause?

- A. The flashed image is not intended for your specific BlueField card revision. Ensure that image corresponds to hardware version.
- B. The BlueField OS image is corrupted. A fresh download and re-flash should resolve the problem.
- **C. Incorrect bootloader configuration (e.g., incorrect bootargs). The bootloader might not be pointing to the correct device tree blob (dtb) or root filesystem**
- D. The secure boot configuration is incorrectly set up. Disabling secure boot in the BIOS or bootloader might resolve the issue.
- E. Insufficient memory allocated to the initrd image. This can lead to failures during initial system setup.

Answer: C

Explanation:

A device tree blob (DTB) describes the hardware to the kernel. If the bootloader doesn't point to the correct DTB or its boot arguments are incorrect, the kernel cannot properly initialize, leading to a panic. The other options could contribute to boot problems but a device tree problem commonly manifests as a kernel panic during initialization.

NEW QUESTION # 96

A system administrator noticed a failure on a DGX H100 server. After a reboot, only the BMC is available. What could be the reason for this behavior?

- A. Multiple GPUs have failed.
- **B. A boot disk has failed.**
- C. There are more than two failed power supplies.
- D. The network card has no link / connection.

Answer: B

Explanation:

On an NVIDIA DGX system, the Baseboard Management Controller (BMC) is an independent processor that runs even if the main CPU and Operating System fail to load. If a server reboots and the administrator can access the BMC web interface or IPMI console, but the OS (Ubuntu/DGX OS) does not load, the most likely cause is about disk failure. The DGX H100 uses NVMe drives in a RAID-1 configuration for the OS boot volume. If both drives in the mirror fail, or if the boot partition becomes corrupted, the system will hang at the BIOS or UEFI prompt, unable to find a bootable device. While failed power supplies (Option D) or network links (Option A) can cause issues, they would typically prevent the BMC from being reachable at all or prevent remote network traffic respectively. A GPU failure (Option C) would not stop the OS from booting; the system would simply boot with a degraded GPU count. Therefore, checking the storage health via the BMC "Storage" logs is the correct diagnostic step.

NEW QUESTION # 97

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