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CheckPoint 156-560

Check Point Certified Cloud Specialist

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NVIDIA NCP-AII Exam Overview:

Certification Vendor:	NVIDIA
Exam Name:	NVIDIA Certified Professional – AI Infrastructure
Exam Number:	NCP-AII
Available Languages:	English
Related Certifications:	NCP-AI NCP-DES
Exam Duration:	90 minutes

Certificate Validity Period:	2 years
Real Exam Qty:	50
Exam Price:	\$195 USD
Exam Format:	Multiple Choice, Multiple Select
Passing Score:	700 (scale of 0-1000)
Sample Questions:	NVIDIA NCP-AII Sample Questions
Exam Way:	Online proctored exam (Pearson VUE)
Pre Condition:	Recommended: hands-on experience with NVIDIA AI infrastructure products; basic knowledge of Linux, networking, and data center operations
Official Syllabus URL:	https://www.nvidia.com/en-us/certifications/ncp-ai-infra/

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NVIDIA NCP-AII Exam Syllabus Topics:

Topic	Details
Topic 1	Physical Layer Management: Covers configuring BlueField network platform devices and setting up Multi-Instance GPU (MIG) partitioning for AI and HPC workloads.
Topic 2	- 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 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	- 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	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 (Q123-Q128):

NEW QUESTION # 123

You are designing a storage solution for a new AI inference cluster that requires extremely low latency for model serving. Which storage technology and configuration would be MOST suitable to meet this stringent latency requirement?

- A. A software-defined storage (SDS) solution running on commodity hardware with SATA SSDs.
- B. A traditional Fibre Channel SAN with a dedicated storage array.
- C. Amazon S3 object storage accessed over a high-bandwidth internet connection.
- D. NVMe-oF (NVMe over Fabrics) using RDMA over Converged Ethernet (RoCE) connected to a cluster of NVMe

drives.

- E. A distributed file system deployed on spinning HDDs with a large read-ahead cache.

Answer: D

Explanation:

NVMe-oF with RoCE (option B) provides the lowest latency due to the combination of NVMe's low-latency access to flash storage and RDMA's ability to bypass the CPU for data transfer. HDDs (A) are too slow. SATA SSDs (C) are slower than NVMe. Object storage (D) introduces network latency. Fibre Channel (E) is a viable option, but NVMe-oF typically offers lower latency and greater flexibility.

NEW QUESTION # 124

You have an NVIDIA A100 GPU and need to configure it for optimal performance across two distinct AI workloads: a large language model (LLM) training job and a computer vision inference service. The LLM benefits from maximum memory bandwidth, while the inference service requires low latency and high throughput. Which MIG configuration would best suit this scenario?

- A. Utilize Time-Slicing on a single full-GPU instance, allocating specific time slots to each workload using NVIDIA Vgpu technology
- B. Create two 7g.80gb MIG instances, one for each workload.
- C. Create one 14g.160gb MIG instance for the LLM and use CUDA MPS to multiplex the inference service.
- **D. Create one 14g.160gb instance for the LLM and one 7g.80gb instance for inference.**
- E. Create a single full-GPU instance and use Kubernetes resource quotas to isolate the workloads.

Answer: D

Explanation:

Creating a 14g.160gb instance for the memory-intensive LLM and a 7g.80gb instance for the inference service provides dedicated resources that cater to the specific needs of each workload, without the overhead or limitations of CUDA MPS or Kubernetes resource quotas. Option A is too conservative, potentially limiting the LLM performance. Option B sacrifices dedicated resources for inference, which may hurt latency. Option C does not leverage MIG and does not guarantee resource isolation and performance consistency. Option E introduces complexities associated with Time-Slicing and might not be suitable for real-time processing.

NEW QUESTION # 125

An AI training cluster with NVIDIA GPUs experiences prolonged data loading times during checkpoint reloading, causing GPUs to idle frequently. CPU utilization during data transfers remains high. Which solution most effectively optimizes storage-to-GPU throughput while reducing CPU overhead?

- A. Increase batch sizes to reduce the frequency of storage access.
- B. Migrate datasets to SATA SSDs with RAID 0 for higher sequential read speeds.
- **C. Implement GPUDirect Storage to enable direct data transfers.**
- D. Add more GPUs to the cluster to parallelize data loading tasks.

Answer: C

Explanation:

GPUDirect Storage is the most effective solution because it reduces unnecessary CPU involvement in the data path between storage and GPU memory. In a traditional AI data pipeline, checkpoint data may move from storage into system memory, be processed by the CPU, and then be copied into GPU memory. This creates CPU overhead and can leave GPUs idle while waiting for data. GPUDirect Storage allows compatible storage systems, file systems, drivers, and NVIDIA GPUs to transfer data more directly into GPU memory. This improves checkpoint reload performance, reduces CPU copy overhead, and helps keep GPUs saturated during training. Increasing batch size may reduce the frequency of storage access, but it does not solve the checkpoint transfer bottleneck. SATA SSDs in RAID 0 may improve local sequential throughput, but they are not ideal for distributed training or shared cluster data access. Adding more GPUs can worsen the issue if the storage path is already the bottleneck. In NVIDIA AI infrastructure, storage-to-GPU optimization is critical for large model training, checkpointing, recovery, and maintaining high accelerator utilization.

NEW QUESTION # 126

Which of the following storage technologies are most suitable for storing large training datasets used in deep learning, considering both performance and cost?

- A. A parallel file system (e.g., BeeGFS, Lustre) deployed on NVMe SSDs
- B. High-performance NVMe SSDs in a local RAID configuration
- C. Tape backup systems
- D. Object storage (e.g., AWS S3, Azure Blob Storage) accessed directly from the training nodes
- E. SATA HDDs in a network-attached storage (NAS) configuration

Answer: A

Explanation:

NVMe SSDs in a local RAID offer high performance and relatively low latency, making them suitable for data that needs to be accessed quickly. Parallel file systems deployed on NVMe SSDs provide the highest performance and scalability, especially for large datasets accessed concurrently by multiple training nodes. Object storage can be used for initial data ingest or archival but is generally slower than local or parallel file systems for training. SATA HDDs and Tape backup systems are a low performing option for this case.

NEW QUESTION # 127

After installing NGC CLI on RHEL, a user runs `ngc registry image list` but sees no results. The API key and org are correctly configured. What resolves this?

- A. Ensure the user's NGC account has 'REGISTRY_READ' permissions for the org.
- B. Disable SELinux to eliminate unnecessary security restrictions.
- C. Reinstall the CLI using the yum command instead of manual installation.
- D. Run `ngc config set --team team-name` to specify a team.

Answer: A

Explanation:

If the API key and organization are configured correctly but registry image listings return no results, the account likely lacks the required registry access within that organization. Granting REGISTRY_READ permission allows the NGC CLI to view and list registry images.

NEW QUESTION # 128

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