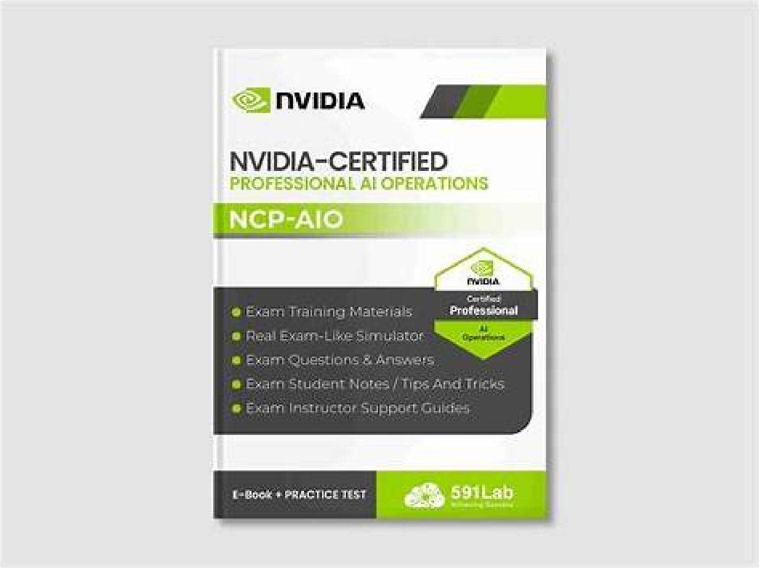
NVIDIA - NCP-AIO–Reliable Exam Outline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NVIDIA NCP-AIO Exam Syllabus Topics:

Topic	Details
Topic 1	• Troubleshooting and Optimization: NVIThis section of the exam measures the skills of AI infrastructure engineers and focuses on diagnosing and resolving technical issues that arise in advanced AI systems. Topics include troubleshooting Docker, the Fabric Manager service for NVIDIA NVlink and NVSwitch systems, Base Command Manager, and Magnum IO components. Candidates must also demonstrate the ability to identify and solve storage performance issues, ensuring optimized performance across AI workloads.
Topic 2	• Installation and Deployment: This section of the exam measures the skills of system administrators and addresses core practices for installing and deploying infrastructure. Candidates are tested on installing and configuring Base Command Manager, initializing Kubernetes on NVIDIA hosts, and deploying containers from NVIDIA NGC as well as cloud VMI containers. The section also covers understanding storage requirements in AI data centers and deploying DOCA services on DPU Arm processors, ensuring robust setup of AI-driven environments.
Topic 3	• Administration: This section of the exam measures the skills of system administrators and covers essential tasks in managing AI workloads within data centers. Candidates are expected to understand fleet command, Slurm cluster management, and overall data center architecture specific to AI environments. It also includes knowledge of Base Command Manager (BCM), cluster provisioning, Run.ai administration, and configuration of Multi-Instance GPU (MIG) for both AI and high-performance computing applications.

Topic 4	• Workload Management: This section of the exam measures the skills of AI infrastructure engineers and focuses on managing workloads effectively in AI environments. It evaluates the ability to administer Kubernetes clusters, maintain workload efficiency, and apply system management tools to troubleshoot operational issues. Emphasis is placed on ensuring that workloads run smoothly across different environments in alignment with NVIDIA technologies.

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NVIDIA AI Operations Sample Questions (Q40-Q45):

NEW QUESTION # 40
You're deploying a multi-GPU VMI container using PyTorch's 'torch.distributed' library for distributed training. You're using 'torch.distributed.launch' to start the training processes. However, you encounter the following error: 'RuntimeError: Address already in use'. What's the MOST likely cause and how can you resolve it?

- A. The error means the container doesn't have enough memory. Increase the container's memory limit.
- B. The error is due to multiple processes trying to bind to the same port for inter-process communication. Specify a unique port using the '-master_port' argument in 'torch.distributed.launcm or setting the 'MASTER PORT environment variable.
- C. This error is not related to VMI containers at all.
- D. The error is related to an incorrect CUDA version. Ensure the CUDA version inside the container matches the host system.
- E. The error indicates a conflict with the NVIDIA driver. Update to the latest driver version.

Answer: B

Explanation:
The 'Address already in use' error in 'torch.distributed' typically arises when multiple processes attempt to bind to the same port for communication. Specifying a unique port for each distributed training job using '-master_port' or the 'MASTER PORT environment variable resolves this conflict. This prevents processes from interfering with each other.

NEW QUESTION # 41
You are using NVIDIA Data Center GPU Manager (DCGM) to monitor your GPU cluster. You want to configure DCGM to automatically alert you when the GPU temperature exceeds a critical threshold. Which DCGM feature is MOST appropriate for this task?

- A. DCGM Health Checks
- B. DCGM Policy Management
- C. DCGM Profiler
- D. DCGM Group Management
- E. DCGM Telemetry

Answer: B

Explanation:
DCGM Policy Management allows you to set thresholds and actions (such as alerts) based on GPIU metrics like temperature. Health Checks perform diagnostics, Telemetry provides monitoring data, Profiler analyzes performance, and Group Management organizes GPUs.

NEW QUESTION # 42
You are deploying a cloud VMI container using Terraform. How would you define a resource to provision an NVIDIA GPU-enabled instance on AWS?

- A. Terraform cannot be used to provision GPU-enabled instances.
- B. □
- C. □
- D. Use packer instead of Terraform.
- E. □

Answer: E

Explanation:
Option A provides the correct Terraform configuration for provisioning a GPU-enabled instance on AWS. It uses the 'aws_instance' resource, specifies a GPU-enabled instance type (e.g., 'g4dn.xlarge'), and includes necessary tags. Other options are not valid or not correct syntax.

NEW QUESTION # 43
A team is running a large distributed training job across multiple nodes in your Run.ai cluster. They are experiencing significant performance degradation due to network latency between the nodes. What are the possible solutions you can implement with Run.ai and potentially ACM to mitigate this issue?

- A. Use Run.ai's built-in network acceleration features.
- B. Enable RDMA (Remote Direct Memory Access) and ensure proper network configuration for low-latency communication.
- C. Configure node affinity rules to ensure that all nodes participating in the distributed training job are located within the same rack or network segment.
- D. Increase the number of GPUs requested per node to reduce inter-node communication.
- E. Implement data parallelism instead of model parallelism.

Answer: B,C

Explanation:
RDMA is a key technology for reducing network latency in distributed training. It allows direct memory access between GPUs on different nodes, bypassing the CPU and reducing overhead. Configuring node affinity to keep the nodes within the same rack or network segment minimizes physical distance and network hops, further reducing latency. Increasing GPUs per node can help but is not directly addressing the inter- node latency issue. Data vs. model parallelism is an application-level choice. Run.ai doesn't have built-in network acceleration as a specific feature, but it supports the underlying technologies like RDMA.

NEW QUESTION # 44
You are responsible for deploying a deep learning model for real-time inference using Triton Inference Server from NGC. Latency is a critical requirement. Which of the following optimization techniques can you employ to minimize inference latency?

- A. Optimize the model's architecture and code for GPU execution.
- B. Reduce the model's precision (e.g., from FP32 to FP16 or INT8).
- C. Increase the number of instances of the model deployed on the Triton server.
- D. Use dynamic batching to aggregate multiple inference requests into a single batch.
- E. Disable CUDA graphs to improve CPU utilization.

Answer: A,B,C,D

Explanation:
A, B, C and E are correct. Increasing instances allows for parallel processing. Dynamic batching improves throughput. Reducing precision accelerates computation. Model optimization enhances GPU utilization. D is generally incorrect; CUDA graphs typically improve performance by reducing kernel launch overhead.

NEW QUESTION # 45
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