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NVIDIA NCP-AIO Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"> 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.
Topic 2	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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 4	<ul style="list-style-type: none"> 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.

NVIDIA AI Operations Sample Questions (Q42-Q47):

NEW QUESTION # 42

Which data center infrastructure component is MOST crucial for ensuring high availability and fault tolerance for AI workloads?

- A. Advanced monitoring and alerting systems.
- B. Redundant power supplies and cooling systems.
- C. High-capacity storage arrays.
- D. High-speed network switches.
- E. All of the above.

Answer: E

Explanation:

All listed components are critical for high availability and fault tolerance. Redundant power and cooling prevent downtime due to failures. High-speed networks ensure continued connectivity. High-capacity storage protects data. Monitoring systems provide early warnings of potential issues, but by themselves, they do not prevent failure. All components are crucial for a truly robust AI data center.

NEW QUESTION # 43

Which of the following statements is TRUE regarding the integration of GPUDirect RDMA with CUDA-Aware MPI?

- A. CUDA-Aware MPI is only beneficial for CPU-GPU communication, while GPUDirect RDMA is used for GPU-GPU communication.

- B. CUDA-Aware MPI and GPUDirect RDMA are mutually exclusive; you can only use one at a time.
- C. CUDA-Aware MPI is not needed when using GPUDirect Storage
- **D. GPUDirect RDMA can be used to accelerate the underlying communication of CUDA-Aware MPI, further reducing latency and CPU overhead.**
- E. GPUDirect RDMA automatically enables CUDA-Aware MPI; no additional configuration is required.

Answer: D

Explanation:

GPUDirect RDMA optimizes the network path for communication. CUDA-Aware MPI allows MPI to directly use GPU memory without CPU copies. When used together, GPUDirect RDMA accelerates the underlying data transfers performed by CUDA-Aware MPI, leading to even greater performance improvements. CUDA-Aware MPI needs to be configured and is not automatically enabled with GPUDirect RDMA. They are designed to work together, not exclusively. CUDA-Aware MPI improves GPU-GPU communication. GPUDirect storage is for moving data, not communication between GPUs in network, so GPUDirect is still relevant.

NEW QUESTION # 44

You are deploying a cloud VMI container on AWS using the NVIDIA GPU Cloud (NGC) AMI. You need to ensure that the container has access to a specific S3 bucket containing the training data. Which of the following is the MOST secure and recommended method to grant this access?

- A. Hardcoding AWS credentials directly within the container's application code.
- B. Using AWS Secrets Manager to store the credentials and retrieving them via the AWS CLI within the container.
- C. Creating a dedicated IAM user and distributing its credentials via AWS Systems Manager Parameter Store. Retrieve credentials during container startup.
- **D. Using an IAM role assigned to the EC2 instance running the VMI container.**
- E. Storing AWS credentials in environment variables within the Dockerfile used to build the container image.

Answer: D

Explanation:

Using an IAM role assigned to the EC2 instance is the most secure method. It avoids storing credentials within the container itself, relying instead on the AWS infrastructure's built-in security mechanisms. Option D is viable but more complex than simply using an IAM Role.

NEW QUESTION # 45

You are using Fleet Command to manage AI model deployments to a diverse fleet of edge devices with varying hardware capabilities.

Some devices are equipped with GPUs, while others rely on CPUs for inference. How can you ensure that the correct version of the AI model is deployed to each device type?

- A. Manually select the appropriate model version for each device during deployment.
- B. Deploy the same model version to all devices and rely on the devices to automatically adapt to their hardware.
- C. Create separate Fleet Command organizations for each device type.
- D. Develop a custom script to determine device capabilities and deploy models accordingly.
- **E. Use Fleet Command's device targeting feature with appropriate labels to define deployment rules based on hardware capabilities.**

Answer: E

Explanation:

Device targeting with labels is the most efficient and scalable way to manage deployments to diverse hardware. Separate organizations (A) are overly complex. Manual selection (C) is error-prone. Relying on automatic adaptation (D) might not be reliable. Custom scripts (E) add unnecessary complexity when Fleet Command provides built-in features.

NEW QUESTION # 46

You have a VMI container running on a cloud platform. You need to monitor the GPU utilization (e.g., GPU memory usage, GPU utilization percentage). Which of the following tools is MOST commonly used for this purpose?

- A. nvidia-smi
- B. htop
- C. vmstat
- D. top
- E. ps

Answer: A

Explanation:

'nvidia-smi' (NVIDIA System Management Interface) is the primary command-line utility for monitoring and managing NVIDIA GPUs. It provides detailed information about GPU utilization, memory usage, temperature, and other metrics.

NEW QUESTION # 47

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