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NVIDIA NCP-AIO Exam Syllabus Topics:

Topic	Details
Topic 1	• 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	• 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 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	• 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.

NVIDIA AI Operations Sample Questions (Q22-Q27):

NEW QUESTION # 22
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 dat a. 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. Using an IAM role assigned to the EC2 instance running the VMI container.
- D. Creating a dedicated IAM user and distributing its credentials via AWS Systems Manager Parameter Store. Retrieve credentials during container startup.
- E. Storing AWS credentials in environment variables within the Dockerfile used to build the container image.

Answer: C

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 # 23
Which configuration file(s) are typically used when deploying Triton Inference Server in a containerized environment to define the model and its execution parameters?

- A. model.json
- B. server.conf
- C. triton.yaml
- D. config.pbtxt
- E. Dockerfile

Answer: D

Explanation:
The 'config.pbtxt' file (or its binary Protobuf equivalent) is the primary configuration file used by Triton Inference Server to define the model's properties, input/output schemas, backend, and execution parameters.

NEW QUESTION # 24
You are trying to configure MIG (Multi-Instance GPU) on your Run.ai cluster. You have an NVIDIAA100 GPU and want to create two MIG instances, each with 20GB of memory. Assuming the A100 has 80GB of memory, what is the CORRECT MIG profile string you would use when submitting a job to request one of these MIG instances?

- A. 2g.20gb
- B. 4g.20gb

- C. 1g.5gb
- D. 2g.10gb
- E. 1g.10gb

Answer: D

Explanation:
The MIG profile string follows the format 'GPU instances>g.gb'. In this case, '2g.10gb' is the correct MIG profile. This is because the A100 GPU will be split into 2 instances with 10 GB memory each, not 20GB as asked in the question. Even if the A100 has 80GB of memory, MIG is not a 1-1 memory division ratio.

NEW QUESTION # 25
You are an administrator managing a large-scale Kubernetes-based GPU cluster using Run:AI.
To automate repetitive administrative tasks and efficiently manage resources across multiple nodes, which of the following is essential when using the Run:AI Administrator CLI for environments where automation or scripting is required?

- A. Install the CLI on Windows machines to take advantage of its scripting capabilities.
- B. Ensure that the Kubernetes configuration file is set up with cluster administrative rights before using the CLI.
- C. Use the runai-adm command to directly update Kubernetes nodes without requiring kubectl.
- D. Use the CLI to manually allocate specific GPUs to individual jobs for better resource management.

Answer: B

Explanation:
Comprehensive and Detailed Explanation From Exact Extract:
When automating tasks with the Run:AI Administrator CLI, it is essential to ensure that theKubernetes configuration file (kubeconfig)is correctly set up with cluster administrative rights. This enables the CLI to interact programmatically with the Kubernetes API for managing nodes, resources, and workloads efficiently.
Without proper administrative permissions in the kubeconfig, automated operations will fail due to insufficient rights.
Manual GPU allocation is typically handled by scheduling policies rather than CLI manual assignments. The CLI does not replacekubectlcommands entirely, and installation on Windows is not a critical requirement.
The Run:AI Administrator CLI requires a Kubernetes configuration file with cluster-administrative rights in order to perform automation or scripting tasks across the cluster. Without those rights, the CLI cannot manage nodes or resources programmatically.

NEW QUESTION # 26
You are tasked with optimizing the performance of a distributed deep learning training job running on multiple nodes interconnected with InfiniBand. You suspect that network communication is a bottleneck. Which tools and techniques would be MOST effective for diagnosing the issue?

- A. Use 'ibstat' to check the status of the InfiniBand interfaces and identify any link errors or congestion.
- B. Use 'nvidia-smi' to monitor GPU utilization on each node.
- C. Employ network profiling tools like 'mpiP' or NVIDIA Nsight Systems to analyze MPI communication patterns and identify bottlenecks.
- D. Check the CPU utilization on each node using 'top'.
- E. Monitor network bandwidth utilization with tools like 'iperf3' to measure the actual throughput between nodes.

Answer: A,C,E

Explanation:
'ibstat' (A) provides direct insight into the InfiniBand link status. Network profiling tools (B) offer detailed analysis of MPI communication. Bandwidth monitoring tools (C) measure actual network throughput. While GPU (D) and CPU (E) utilization are important, they don't directly diagnose network bottlenecks.

NEW QUESTION # 27
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