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NVIDIA NCP-AIO Exam Syllabus Topics:

Topic	Details
Topic 1	<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 2	<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 3	<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.
Topic 4	<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.

NVIDIA AI Operations Sample Questions (Q37-Q42):

NEW QUESTION # 37

You are running a distributed TensorFlow training job on your Kubernetes cluster. The job consists of a parameter server and multiple worker pods. To maximize GPU utilization and ensure efficient communication, you want to place the parameter server and workers on nodes that are as close as possible within the network topology. Which Kubernetes feature can assist you in achieving this?

- **A. Topology Spread Constraints.**
- B. Resource Quotas.
- C. NodeSelector.
- D. Pod Priority.
- E. Pod anti-affinity.

Answer: A

Explanation:

The correct answer is C. Topology Spread Constraints allow you to control how pods are spread across your cluster based on topology domains like nodes, racks, or zones. By specifying the relevant topology domain (e.g., for nodes), you can encourage the scheduler to place related pods (parameter server and workers) on the same or nearby nodes. Pod anti-affinity (A) would work to keep pods separated. NodeSelector (B) can place pods on specific nodes, but doesn't inherently understand network topology. Resource Quotas (D) and Pod Priority (E) don't directly address pod placement based on network proximity.

NEW QUESTION # 38

You are deploying a VMI container on a cloud platform, and you need to set up automatic scaling based on the GPU utilization. Which of the following approaches is MOST appropriate for implementing this?

- A. Use Kubernetes Horizontal Pod Autoscaler (HPA) with a custom metric that monitors GPU utilization using the NVIDIA DCGM Exporter.
- B. GPU Utilization cannot be used for Autoscaling.
- C. Configure the container's application to automatically scale itself based on GPU utilization.
- D. Use Kubernetes Horizontal Pod Autoscaler (HPA) based on CPU utilization.
- E. Manually monitor GPU utilization and scale the number of containers using the cloud provider's CLI.

Answer: A

Explanation:

Using Kubernetes HPA with a custom metric based on GPU utilization is the most robust and automated approach. The NVIDIA DCGM Exporter provides GPU metrics that can be used by the HPA to trigger scaling events based on actual GPU usage. Option A will not consider GPU Utilization.

NEW QUESTION # 39

You need to upgrade the Run.ai platform on your on-premise Kubernetes cluster. What is the RECOMMENDED procedure for performing this upgrade to minimize downtime and ensure a smooth transition?

- A. Upgrade the Kubernetes cluster itself before upgrading Run.ai.
- B. Delete the existing Run.ai deployment and install the new version from scratch.
- C. Edit the Run.ai deployment YAML file directly and apply the changes.
- D. Follow the official Run.ai documentation for the specific upgrade path, typically involving a rolling update procedure using Helm or kubectl apply.
- E. Simply restart all Run.ai pods in the cluster.

Answer: D

Explanation:

Following the official Run.ai documentation is crucial for a smooth upgrade. Run.ai typically provides detailed instructions for upgrading the platform, often involving a rolling update procedure using Helm or kubectl apply. This minimizes downtime by updating components incrementally. Deleting and reinstalling is disruptive and risky. Directly editing the deployment YAML is not recommended. While Kubernetes version compatibility is important, Run.ai upgrades should generally be performed independently, following Run.ai's documented procedure. Restarting pods is insufficient for a platform upgrade.

NEW QUESTION # 40

You are deploying a cloud VMI container with Kubernetes. Your application requires a specific NVIDIA driver version. How do you ensure the correct driver version is used within the container, especially when the host node might have a different driver version?

- A. Bake the required NVIDIA driver version directly into the container image during the Docker build process.
- B. The NVIDIA driver version used on the host node is automatically inherited by the container; no specific configuration is needed.
- C. Configure the Kubernetes node's operating system to always use the desired NVIDIA driver version globally.
- D. Utilize the NVIDIA Device Plugin for Kubernetes and configure it to inject the correct driver libraries into the container during runtime.
- E. Specify the desired driver version in the Kubernetes Deployment manifest using the 'nvidia.com/gpu.driver.version' resource limit.

Answer: A,D

Explanation:

Using the NVIDIA Device Plugin allows for dynamic injection of driver libraries. Baking the driver into the container also works, but it results in a larger image and less flexibility. Option A is not a valid resource limit. Overriding the host OS driver is not practical for multi-tenant environments. Relying on host inheritance is risky as driver versions can vary.

NEW QUESTION # 41

A cloud engineer is looking to deploy a digital fingerprinting pipeline using NVIDIA Morpheus and the NVIDIA AI Enterprise Virtual Machine Image (VMI).

Where would the cloud engineer find the VMI?

- A. Azure, Google, Amazon Marketplaces
- B. Github and Dockerhub
- C. NVIDIA NGC
- D. Developer Forums

Answer: A

Explanation:

The NVIDIA AI Enterprise Virtual Machine Images (VMIs), including those needed for NVIDIA Morpheus deployments, are made available through the major cloud marketplaces such as Azure Marketplace, Google Cloud Marketplace, and Amazon Web Services Marketplace. This provides easy, standardized access and deployment options for enterprise users. While NGC hosts containers and models, the VMIs specifically are offered via cloud marketplaces.

NEW QUESTION # 42

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