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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"> 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 3	<ul style="list-style-type: none"> Troubleshooting and Optimization: NVThis 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"> 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.

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NVIDIA AI Operations Sample Questions (Q60-Q65):

NEW QUESTION # 60

Which statement BEST describes the role of NVIDIA's Cluster Manager (ACM) in a Run.ai environment?

- A. ACM is only required for multi-cluster Run.ai deployments.
- B. ACM is a replacement for Kubernetes and manages the entire cluster infrastructure.
- C. ACM is used to manage storage and networking.
- **D. ACM provides advanced scheduling policies, fair-share algorithms, and resource management capabilities on top of Kubernetes, enhancing Run.ai's functionality.**
- E. ACM is a tool for monitoring GPU utilization but does not directly impact scheduling or resource allocation.

Answer: D

Explanation:

ACM (NVIDIA Cluster Manager) works in conjunction with Kubernetes and Run.ai. It provides advanced scheduling policies (like fair-share), enhanced resource management, and improved GPU utilization capabilities, supplementing Run.ai's core functionalities. ACM is not a replacement for Kubernetes. It enhances it. It does more than just monitoring. It's beneficial, not required, for multi-cluster setups. While ACM integrates with the underlying infrastructure, storage and networking management isn't its primary focus.

NEW QUESTION # 61

You're using Docker Swarm to orchestrate a cluster of machines, some with GPUs and some without. You want to deploy a containerized AI application that requires GPUs, ensuring it only runs on nodes with GPUs available. How do you achieve this?

- **A. Use Docker Swarm's node constraints to specify that the service should only run on nodes with the 'nvidia.gpu=present' label.**
- B. Create separate Docker images one for GPU nodes and one for non-GPU nodes and deploy the appropriate image to

each node type.

- C. Use Docker Compose with deployment constraints to specify the same node label requirement.
- D. Use environment variables within the container to check for the presence of NVIDIA devices and exit if none are found.
- E. Manually schedule the container on GPU-equipped nodes using 'docker run' with the '--gpus all' flag and node affinity.

Answer: A,C

Explanation:

Docker Swarm (and Compose in deploy mode) supports node constraints, allowing you to target deployments to nodes with specific labels (like 'nvidia.gpu=present'). Setting labels on the Swarm nodes is required first. Environment variable checks (C) are less reliable. Manual scheduling (D) defeats the purpose of orchestration. Separate images (E) are unnecessary with proper constraint usage.

NEW QUESTION # 62

You are deploying a multi-tenant AI platform on Kubernetes, where different teams share the same cluster. Each team should only be able to access and utilize the GPUs allocated to their respective namespaces. How can you enforce this isolation?

- A. Leverage a custom admission controller to validate GPU requests and ensure they originate from authorized namespaces.
- B. Use Kubernetes RBAC (Role-Based Access Control) to restrict access to GPU resources based on namespaces.
- C. Configure the NVIDIA Device Plugin to only expose GPUs to pods within specific namespaces.
- D. Utilize resource quotas to limit the GPU usage of each namespace, and rely on users to respect these limits.
- E. Implement network policies to isolate the network traffic of different namespaces, thereby preventing unauthorized GPU access.

Answer: A,B

Explanation:

The correct answers are A and E. RBAC allows you to control who can create, modify, or delete GPU resources within each namespace. It defines what actions (verbs) are allowed on what resources. Combined with a custom admission controller to validate the GPU request, you can enforce the access control across the namespaces. Implementing an admission controller enforces policies and validates requests to access GPU resources originated from authorized namespaces. Option B doesn't exist. Option C, although helpful for network segmentation, does not directly control GPU access. Option D only limits usage, not access.

NEW QUESTION # 63

A system administrator is looking to set up virtual machines in an HGX environment with NVIDIA Fabric Manager. What three (3) tasks will Fabric Manager accomplish? (Choose three.)

- A. Configures routing among NVSwitch ports.
- B. Installs GPU operator
- C. Coordinates with the NVSwitch driver to train NVSwitch to NVSwitch NVLink interconnects.
- D. Installs vGPU driver as part of the Fabric Manager Package.
- E. Coordinates with the GPU driver to initialize and train NVSwitch to GPU NVLink interconnects.

Answer: A,C,E

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

NVIDIA Fabric Manager is responsible for managing the fabric interconnect in HGX systems, including:

- * Configuring routing among NVSwitch ports (A) to optimize communication paths.
- * Coordinating with the NVSwitch driver to train NVSwitch-to-NVSwitch NVLink interconnects (C) for high-speed link setup.
- * Coordinating with the GPU driver to initialize and train NVSwitch-to-GPU NVLink interconnects (E) ensuring optimal connectivity between GPUs and switches.

Installing the GPU operator and vGPU driver is typically handled separately and not part of Fabric Manager's core tasks.

NEW QUESTION # 64

You have a cluster dedicated to AI inference, serving models from a persistent volume. You're experiencing high latency and CPU usage on the nodes serving inference requests. You suspect that storage access patterns are contributing to the issue. Your persistent volume is backed by a distributed file system. Describe a strategy, including relevant tools and techniques, to analyze the storage I/O

- A. Use 'iotop' or 'iostat' on the compute nodes to monitor real-time I/O activity and identify processes with high disk I/O. Then check the related containers that are doing more of these reads/writes.
- B. Utilize the distributed file system's monitoring tools (if available) to analyze I/O patterns at the file system level. This can reveal hotspots or inefficient data access patterns.
- C. Implement storage QOS (Quality of Service) policies to prioritize inference workloads and limit the impact of other I/O-intensive processes.
- D. Randomly restart the inference pods. If the issue goes away, it means the storage system was temporarily overloaded.
- E. Capture network traffic using 'tcpdump' or Wireshark to analyze the communication patterns between the compute nodes and the storage system. Look for excessive network latency or congestion. Also monitor the network latency using tools like 'ping' or 'iperf'.

Explanation: 'iotop/Tiostat' identifies I/O-heavy processes. 'tcpdump'/Wireshark/ping/iperf helps analyze network communication. File system monitoring tools reveal data access patterns. Implementing storage QOS prioritizes inference workloads. Only restart the inference pods if you have a strong reason, otherwise troubleshooting the storage using one of the other methods is best practice.

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