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Q&A (Questions and Answers)

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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"> • 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 3	<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 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.

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NVIDIA AI Operations Sample Questions (Q43-Q48):

NEW QUESTION # 43

You are tasked with deploying a TensorFlow container from NGC on a Kubernetes cluster. The container requires specific NVIDIA drivers and libraries. Which of the following steps are essential to ensure successful deployment and GPU utilization?

- A. Bypass the NVIDIA Container Toolkit and directly use Docker to deploy the container.
- **B. Create a Kubernetes DaemonSet to automatically deploy and manage the NVIDIA device plugin on all nodes.**
- C. Deploy the container without specifying any resource limits or requests to allow it to utilize all available GPUs.
- **D. Ensure the NVIDIA Container Toolkit is installed and configured on all worker nodes.**
- **E. Verify that the NVIDIA drivers on the host machines match the versions required by the container.**

Answer: B,D,E

Explanation:

A, C, and D are correct. The NVIDIA Container Toolkit enables GPU access within containers. Matching driver versions are crucial for compatibility. The device plugin exposes GPU resources to Kubernetes. B is incorrect because resource limits are important for scheduling and stability. E is incorrect; the NVIDIA Container Toolkit is the recommended method for GPU access within containers.

NEW QUESTION # 44

You are using NVSHMEM to manage shared memory across multiple GPUs in a multi-node cluster. Your application is crashing with out- of-memory errors, even though the reported GPU memory usage is well below the total available. You have already confirmed sufficient physical RAM on all nodes. What is the MOST likely cause, related to NVSHMEM configuration, of these out-of-memory errors?

- A. The NCCL library is not properly initialized.
- B. The InfiniBand drivers are outdated.

- C. The 'NVSHMEM SYMMETRIC SIZE environment variable is set too low.
- D. The CUDA driver version is incompatible with NVSHMEM.
- E. 'CUDA_VISIBLE_DEVICES is set incorrectly

Answer: C

Explanation:

The 'NVSHMEM SYMMETRIC SIZE environment variable defines the total amount of shared memory available to NVSHMEM across all nodes. If this value is too small, even if individual GPUs have sufficient memory, the overall NVSHMEM shared memory pool may be exhausted, leading to out-of-memory errors. CUDA driver incompatibility, NCCL issues, and outdated InfiniBand drivers could cause other problems, but they are less likely to directly cause out-of-memory errors when individual GPU usage is low. CUDA_VISIBLE_DEVICES may effect device enumeration and memory allocation, but is the master environment variable.

NEW QUESTION # 45

A system administrator is experiencing issues with Docker containers failing to start due to volume mounting problems. They suspect the issue is related to incorrect file permissions on shared volumes between the host and containers.

How should the administrator troubleshoot this issue?

- A. Disable all shared folders between the host and container to prevent volume mounting errors.
- B. Reinstall Docker to reset all configurations and resolve potential volume mounting issues.
- C. Use the docker logs command to review the logs for error messages related to volume mounting and permissions.
- D. Reduce the size of the mounted volumes to avoid permission conflicts during container startup.

Answer: C

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

The first step to troubleshoot Docker container volume mounting issues is to check the container logs using `docker logs` for detailed error messages, including those related to permissions. This provides direct insight into the cause of the failure. Reinstalling Docker or disabling shared folders are drastic steps and may not address the root cause. Volume size reduction is unrelated to permission conflicts.

NEW QUESTION # 46

You need to configure node health checks in Slurm to automatically detect and drain unhealthy nodes. Which of the following approaches is the MOST robust and recommended way to achieve this?

- A. Writing a custom script and adding it to the 'HealthCheckProgram' parameter in 'slurm.conf'.
- B. Using the 'scontrol update node' command to manually mark nodes as DOWN when issues are detected.
- C. Creating a cron job that periodically checks node health using 'sinfo' and marks failing nodes as DOWN.
- D. Disabling node heartbeat messages to avoid false positives.
- E. Relying solely on the 'SuspendExcNodeList' parameter to prevent jobs from being scheduled on potentially problematic nodes.

Answer: A

Explanation:

The 'HealthCheckProgram' parameter in 'slurm.conf' allows you to specify a script that Slurm will periodically execute to check the health of each node. This provides an automated and robust mechanism for detecting and draining unhealthy nodes. Manually updating node states is not scalable, and relying solely on 'SuspendExcNodeList' is not proactive.

NEW QUESTION # 47

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. ☐
- B. Terraform cannot be used to provision GPU-enabled instances.
- C. ☐
- D. ☐

- E. Use packer instead of Terraform

Answer: A

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 # 48

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