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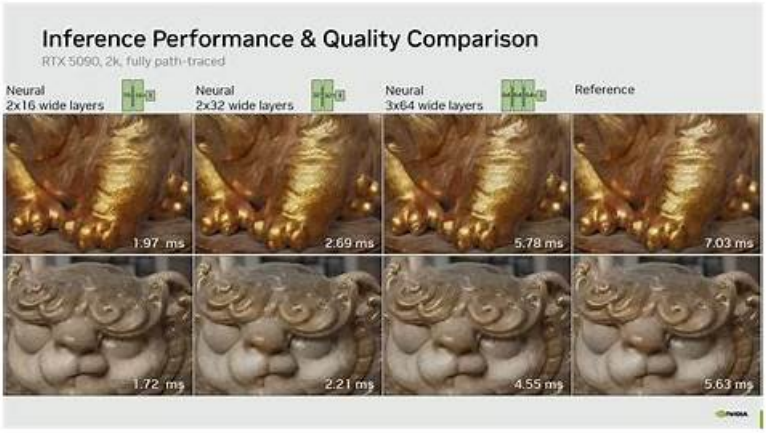

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NVIDIA NCP-AIO Exam Syllabus Topics:

Topic	Details
Topic 1	• 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 2	• 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	• 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	• 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 (Q35-Q40):

NEW QUESTION # 35
You are troubleshooting a Run.ai job that is failing with a CUDA out-of-memory error, despite requesting a seemingly sufficient amount of GPU memory. What is the MOST likely cause of this issue?

- A. The requested GPU count is too low.
- B. The CUDA version on the node is incompatible with the application.
- C. The job is using a larger batch size than the GPU memory can accommodate.
- D. The requested CPU count is too low.
- E. The job's Docker image is corrupted.

Answer: C

Explanation:
The most likely cause of a CUDA out-of-memory error, even with a seemingly sufficient GPU memory request, is that the application is trying to allocate more memory than is available on the GPU, often due to an excessively large batch size or model size. While CUDA version incompatibility can cause issues, it usually results in a different type of error. Incorrect GPU or CPU counts can lead to performance issues but not directly OOM errors. A corrupted Docker image would likely prevent the job from starting altogether.

NEW QUESTION # 36
Your Kubernetes cluster is running a mixture of AI training and inference workloads. You want to ensure that inference services have higher priority over training jobs during peak resource usage times.
How would you configure Kubernetes to prioritize inference workloads?

- A. Use Horizontal Pod Autoscaling (HPA) based on memory usage to scale up inference services during peak times.
- B. Implement ResourceQuotas and PriorityClasses to assign higher priority and resource guarantees to inference workloads over training jobs.
- C. Set up a separate namespace for inference services and limit resource usage in other namespaces.
- D. Increase the number of replicas for inference services so they always have more resources than training jobs.

Answer: B

Explanation:
Comprehensive and Detailed Explanation From Exact Extract:
To prioritize inference workloads over training jobs in Kubernetes, administrators should configurePriorityClassesandResourceQuotas. PriorityClasses allow assigning different priority levels to pods, ensuring that during resource contention, higher-priority pods (inference services) receive resources first.
ResourceQuotas limit the resource consumption per namespace or user, controlling overall usage and reserving capacity for critical workloads. This setup effectively manages resource allocation and guarantees performance for inference jobs during peak times.
* Increasing replicas or namespaces alone does not guarantee priority during contention.
* HPA scales based on metrics but does not manage priority or resource guarantees directly.

NEW QUESTION # 37
You're deploying a deep learning model training job to your Kubernetes cluster managed through BCM. This job requires exclusive access to two GPUs on a specific node with high memory bandwidth. How would you best configure your pod to achieve this?

- A. All of the above would work.
- B. Use a 'nodeSelector' to target the specific node and request 'nvidia.com/gpu: 2 in the pod's resource requests.

- C. Use 'kubectl patch node -p to make the node only schedulable for your pod, and then request 'nvidia.com/gpu: 2' in the pod's resource requests.
- D. Use a combination of 'nodeselector' and 'tolerations' to target the specific node, and request 'nvidia.com/gpu: 2' in the pod's resource requests.
- E. Use a 'nodeAffinity' with 'requiredDuringSchedulinglgnoredDuringExecution' to target the specific node and request 'nvidia.com/gpu: 2 in the pod's resource requests.

Answer: E

Explanation:
Using 'nodeAffinity' with 'requiredDuringSchedulinglgnoredDuringExecution' ensures that the pod is scheduled on the specific node. nodeSelector' only allows simple label matching. Setting the node to unschedulable is overly restrictive, and the 'tolerations' approach (D) is for nodes with taints, which is not the goal here. 'requiredDuringSchedulinglgnoredDuringExecution' is prefered, it allows pod to continue if nodes go down after schduling , 'requiredDuringSchedulingRequiredDuringExecution' will cause the pod to be evicted

NEW QUESTION # 38
You suspect that 'nvsm' is not properly utilizing all available resources on your system. What metrics can you monitor to assess the resource consumption of 'nvsm' and identify potential bottlenecks?

- A. Power consumption of the NVSwitch.
- B. Disk I/O and filesystem latency.
- C. System uptime and kernel version.
- D. GPU utilization and memory usage.
- E. CPU usage, memory usage, and network 1/0.

Answer: E

Explanation:
To assess the resource utilization of 'nvsm' , you should monitor its CPU usage, memory usage, and network I/O. These metrics will provide insights into potential bottlenecks and areas where the service might be constrained.

NEW QUESTION # 39
You're encountering intermittent CUDA errors within your Docker container, specifically 'CUDA error: invalid device function'. The application runs fine sometimes, but other times it fails with this error. What are potential causes and debugging strategies?

- A. There's a mismatch between the CUDA toolkit version used to compile the application and the NVIDIA driver version on the host. Ensure compatibility.
- B. The power supply to the GPU is insufficient, leading to unstable operation. Check the power supply's capacity and connections.
- C. There's a bug in the CUDA code causing it to access invalid memory locations intermittently. Use CUDA debugging tools like Scuda-gdb' to identify the issue.
- D. The GPU is overheating, causing instability. Monitor GPU temperature using 'nvidia-smi' and ensure adequate cooling.
- E. The Docker container is not properly isolated, and other processes on the host are interfering with CUDA's operation.

Answer: A,C,D

Explanation:
A CUDA version mismatch (A) is a common cause of 'invalid device function' errors. GPU overheating (B) can also lead to instability and CUDA errors. Memory access bugs in the CUDA code (D) are another potential cause. While option C might be relevant in some edge cases, it is less likely in a properly configured Docker environment. Insufficient power (E) would typically cause more consistent failures, not intermittent ones.

NEW QUESTION # 40
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