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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	- 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	- 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	- 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.

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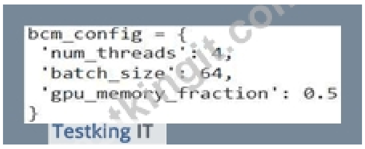
NVIDIA AI Operations Sample Questions (Q44-Q49):

NEW QUESTION # 44
Consider the following BCM configuration snippet (simplified). What potential issue might this snippet cause, and how would you address it?



```
bcm_config = {
 'num_threads': 4,
 'batch_size': 64,
 'gpu_memory_fraction': 0.5
}
```

- A. The gpu_memory_fraction' is too high, potentially leaving insufficient memory for other applications. Reduce it if other GPU processes are running.
- B. There is no immediate issue. This configuration appears reasonable without knowing the specific hardware or workload.
- C. The num_threads' value is too low, leading to CPU underutilization. Increase it to match the number of CPU cores.
- D. The 'batch_size' is too large, causing CUDA out-of-memory errors. Decrease it to a smaller value.
- E. B and C.

Answer: E

Explanation:
Without further information on the use case, batch size and GPU fraction are potentially too high and might need to be decreased.

NEW QUESTION # 45
Which two (2) ways does the pre-configured GPU Operator in NVIDIA Enterprise Catalog differ from the GPU Operator in the public NGC catalog? (Choose two.)

- A. It automatically installs the NVIDIA Datacenter driver.

- B. It supports Mixed Strategies for Kubernetes deployments.
- C. It is configured to use a prebuilt vGPU driver image.
- D. It is configured to use the NVIDIA License System (NLS).
- E. It additionally installs Network Operator.

Answer: C,D

Explanation:
Comprehensive and Detailed Explanation From Exact Extract:
The pre-configured GPU Operator in the NVIDIA Enterprise Catalog differs from the public NGC catalog GPU Operator primarily by its configuration to use aprebuilt vGPU driver imageand being configured to use theNVIDIA License System (NLS). These adaptations allow better support for enterprise environments where vGPU functionality and license management are critical.
Other options such as automatic installation of the Datacenter driver or additional installation of Network Operator are not specific differences highlighted between the two operators.

NEW QUESTION # 46
You are managing multiple edge AI deployments using NVIDIA Fleet Command. You need to ensure that each AI application running on the same GPU is isolated from others to prevent interference.
Which feature of Fleet Command should you use to achieve this?

- A. Secure NFS support
- B. Multi-Instance GPU (MIG) support
- C. Remote Console
- D. Over-the-air updates

Answer: B

Explanation:
Comprehensive and Detailed Explanation From Exact Extract:
NVIDIAFleet Commandis a cloud-native software platform designed to deploy, manage, and orchestrate AI applications at the edge. When managing multiple AI applications on the same GPU,Multi-Instance GPU (MIG) supportis critical. MIG allows a single GPU to be partitioned into multiple independent instances, each with dedicated resources (compute, memory, bandwidth), enabling workload isolation and preventing interference between applications.
* Remote Consoleallows remote access for management but does not provide GPU resource isolation.
* Secure NFS supportis for secure network file system sharing, unrelated to GPU resource partitioning.
* Over-the-air updatesare for updating software remotely, not for GPU resource management.
Therefore, to ensure application isolation on the same GPU in Fleet Command environments, enablingMIG support (option C)is the recommended and standard practice.
This capability is emphasized in NVIDIA's AI Operations and Fleet Command documentation for managing edge AI deployments efficiently and securely.

NEW QUESTION # 47
Your BCM pipeline uses a custom CUDA kernel. After upgrading the NVIDIA driver, the kernel fails to compile with an obscure error.
What is the MOST likely cause and how do you resolve it?

- A. The custom kernel has a bug. Debug the kernel using cuda-gdb.
- B. The CUDA toolkit version is incompatible with the new driver. Recompile the kernel with a compatible toolkit.
- C. A and D
- D. The driver upgrade corrupted the CUDA runtime. Reinstall the CUDA toolkit.
- E. The new driver introduced a change in CUDAAPI. Update the kernel code to reflect the API change.

Answer: C

Explanation:
Driver upgrades can introduce CUDA toolkit incompatibilities or changes in the CUDAAPI that necessitate recompilation or code modification.

NEW QUESTION # 48
While monitoring your storage system during a large training job, you notice consistently high disk I/O wait times ('iowait'). What does this metric indicate, and what actions can you take to mitigate it?

- A. High 'iowait' indicates network congestion. Optimize network configuration.
- B. High 'iowait' means the CPU is waiting for I/O operations to complete. Increase CPU cores.
- C. High 'iowait' is normal during large training jobs and does not require any action.
- D. High 'iowait' means the CPU is waiting for I/O operations to complete. Investigate storage performance bottlenecks such as disk saturation, network latency (if using networked storage), or inefficient data access patterns.
- E. High 'iowait' means the system is swapping memory to disk. Add more RAM or reduce memory usage.

Answer: D

Explanation:
'iowait' directly reflects the time the CPU spends idle, waiting for disk I/O operations. The solutions are targetted to identify whether the bottleneck is disk saturation, network latency or inefficient data access patterns.

NEW QUESTION # 49
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