

NVIDIA NCP-AIO Interactive Course, Real NCP-AIO Exam Dumps



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Solutions is one of the top platforms that has been helping NCP-AIO exam candidates for many years. Over this long time period countless candidates have passed their dream NVIDIA AI Operations exam. The NCP-AIO exam questions are designed by experience and qualified NVIDIA AI Operations expert. The DumpsTests NCP-AIO Exam Questions will not only assist you in NCP-AIO exam preparation but also give you sight knowledge about the NVIDIA AI Operations (NCP-AIO) exam topics that will help you in your professional career.

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	• 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	• 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 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 (Q37-Q42):

NEW QUESTION # 37

You are tasked with monitoring the GPU utilization of a Run.ai cluster to identify potential bottlenecks and optimize resource allocation.

Which of the following metrics, available through the Run.ai UI or CLI, would be MOST useful for this purpose?

- A. GPU memory utilization per job and per node.
- B. Disk I/O per container.
- C. Total number of jobs submitted.
- D. Network bandwidth usage per pod.
- E. CPU utilization per node.

Answer: A

Explanation:

GPU memory utilization per job and per node is the MOST useful metric for identifying GPU bottlenecks. It directly indicates how much of the available GPU memory is being used by each job and on each node, allowing you to identify overloaded nodes or jobs that are inefficiently using GPU resources. Other metrics are important for overall system monitoring, but GPU memory utilization is the key indicator for GPU-specific bottlenecks.

NEW QUESTION # 38

You have a Run.ai cluster integrated with NVIDIA's Cluster Manager (ACM). A data scientist reports that their job is being preempted frequently, even though they have a high-priority quota. What are the MOST likely reasons for this preemption, assuming ACM is configured correctly?

- A. Another job with a higher guaranteed quota and higher priority needs the resources.

- B. The node where the job is running is being drained for maintenance.
- C. The job is using an outdated CUDA driver version.
- D. The job is exceeding its memory limits.
- E. A higher priority job is requesting resources and preemption is enabled for that queue.

Answer: A,B,E

Explanation:

Preemption in Run.ai with ACM is typically triggered by: Another job with a higher guaranteed quota and higher priority needing the resources (ACM prioritizes based on quota and priority). The node being drained (Kubernetes initiates preemption to safely evacuate pods before maintenance). A higher priority job needing resources and preemption is enabled. Exceeding memory limits usually results in an OOM error, not preemption. An outdated CUDA driver could cause errors, but not typically preemption. Note that OOM can occur on containers when the available memory is exhausted, which can cause them to be killed

NEW QUESTION # 39

You have configured MIG instances for different users in a multi-tenant environment. One user complains that their application is running slower than expected, despite having a dedicated MIG instance. You suspect resource contention on the host system. Which of the following could be causing the slowdown, even with MIG in place?

- A. Insufficient power provided by the PSU.
- B. CPU core oversubscription. Even with dedicated MIG instances, CPU cores might be oversubscribed, leading to performance degradation.
- C. Network bandwidth limitations. If the application relies on network communication, bandwidth limitations could be the bottleneck.
- D. Insufficient host memory. The overall host system might be running low on memory, causing swapping and slowing down all processes.
- E. MIG guarantees complete isolation, so resource contention is impossible.

Answer: B,C,D

Explanation:

MIG provides GPU resource isolation, but it does not isolate other system resources. CPU oversubscription, insufficient host memory, and network bandwidth limitations can all contribute to performance slowdowns, even with dedicated MIG instances. It's important to monitor and manage these resources in addition to GPU resources.

NEW QUESTION # 40

You're tasked with implementing a secure and auditable deployment pipeline for AI models using Fleet Command. Which of the following methods BEST ensures that all model deployments are tracked and authorized?

- A. Manually documenting each deployment in a spreadsheet.
- B. Creating a custom script to log deployments to a local text file on the Fleet Command server.
- C. Leveraging Fleet Command's built-in deployment history and user access controls.
- D. Relying on email notifications to track deployments.
- E. Using a third-party CI/CD tool integrated with Fleet Command.

Answer: C

Explanation:

Fleet Command's built-in features offer the most robust and secure way to track deployments and manage user access. Manual spreadsheets (A) are error-prone. Custom scripts (B) can be less secure and harder to maintain. Email notifications (D) lack auditability. While CI/CD tools (E) can be integrated, leveraging Fleet Command's native capabilities is the most straightforward and secure option.

NEW QUESTION # 41

You are using MIG (Multi-Instance GPU) on an NVIDIA A100 GPU to partition the GPU into smaller instances. One of the MIG instances is experiencing significantly lower performance compared to other instances running the same workload. What could be the potential reasons for this?

- A. The operating system is not compatible with MIG.
- B. The NVIDIA drivers are not properly configured for MIG.
- C. The MIG instance might have been configured with fewer compute resources (e.g., fewer SMS) than other instances. Use 'nvidia-smi' to verify the configuration of each MIG instance.
- D. The MIG instance might be sharing PCIe bandwidth with another device on the same PCIe root complex. Check the PCIe topology of the server.
- E. The workload running on that MIG instance might be experiencing memory contention with other processes on the system. Monitor memory usage with tools like 'free -m' and 'nvidia-smi'.

Answer: C,D,E

Explanation:

MIG instances can be configured with different amounts of resources (A), leading to performance variations. Memory contention (B) can also impact performance. Sharing PCIe bandwidth (C) can create bottlenecks. Driver configuration issues (D) would likely prevent MIG from working altogether. OS incompatibility (E) is less likely, as MIG requires specific OS and driver versions, which are typically validated beforehand.

NEW QUESTION # 42

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