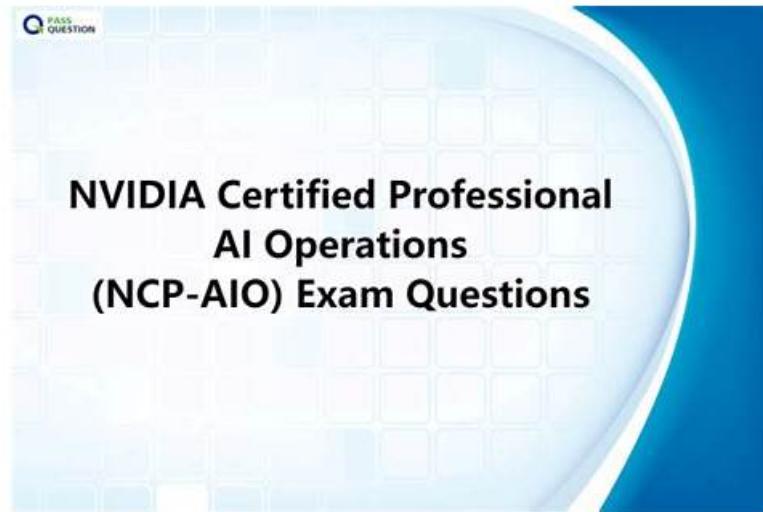


# Valid NCP-AIO Exam Questions That Have Been Tried and True



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## NVIDIA NCP-AIO Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"><li>• 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.</li></ul>
Topic 2	<ul style="list-style-type: none"><li>• 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.</li></ul>
Topic 3	<ul style="list-style-type: none"><li>• Troubleshooting and Optimization: This 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.</li></ul>
Topic 4	<ul style="list-style-type: none"><li>• 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.</li></ul>

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### NVIDIA AI Operations Sample Questions (Q16-Q21):

#### NEW QUESTION # 16

You are attempting to run a Docker container that leverages NVIDIA GPUs, but encounter the following error: 'docker: Error response from daemon: could not select device driver "nvidia" with capabilities: [[gpu]].' What is the most probable cause and how would you resolve it?

- A. The host system does not have any NVIDIA GPUs installed. Verify that NVIDIA GPUs are installed and detected by the system.
- B. The Docker daemon is not configured to use the NVIDIA runtime as its default runtime. Set the default runtime by editing '/etc/docker/daemon.json' and restarting the Docker daemon.
- C. The NVIDIA Container Toolkit is not correctly installed or configured. Verify the installation and configuration following NVIDIA's documentation.
- D. The '-gpus all' flag is missing from the 'docker run' command. Include the flag to enable GPU access for the container.
- E. The NVIDIA driver version is incompatible with the Docker daemon. Update the NVIDIA drivers to the latest version.

**Answer: B,C**

Explanation:

The error message 'could not select device driver nvidia with capabilities: [[gpu]]' points directly to a problem with the NVIDIA Container Toolkit (A), and incorrect NVIDIA runtime setup and configuration within the Docker daemon. Verify installation of NVIDIA Container Toolkit, and set the default runtime in '/etc/docker/daemon.json' file.

#### NEW QUESTION # 17

A data scientist submits a Run.ai job requesting 4 GPUs. However, due to resource constraints, only 2 GPUs are immediately available. You want the job to automatically start running as soon as the remaining 2 GPUs become available, without manual intervention. How do you configure Run.ai to achieve this?

- A. Set a higher quota for the team.
- B. Enable gang scheduling for the job.
- C. Use Run.ai's 'suspend' and 'resume' commands manually.
- D. Configure a lower priority for the job.
- E. Set the job's 'restartPolicy' to 'Always'.

**Answer: B**

Explanation:

Gang scheduling ensures that all requested resources (in this case, all 4 GPUs) are allocated before the job starts. The job will remain in a pending state until all resources are available, and then it will automatically start. 'restartPolicy' only applies if a job fails after it has already started. Lower priority would make it less likely to start. Manually suspending and resuming requires intervention. A quota impacts how much you can submit overall, not the allocation of the complete resources requested by a single job.

#### NEW QUESTION # 18

You are designing storage for an AI data center focused on training large language models (LLMs). You need to optimize for both

capacity and speed. Which storage technology is most suitable for the training data itself, considering the need for high throughput and parallel access?

- A. NVMe-based parallel file system (e.g., BeeGFS, Lustre) directly attached to compute nodes
- B. Object storage (e.g., AWS S3, Ceph) accessed over the internet
- C. Traditional Hard Disk Drives (HDDs) in a RAID 5 configuration
- D. Tape storage
- E. Network File System (NFS) over a 1 Gbps network

**Answer: A**

Explanation:

NVMe-based parallel file systems offer the highest throughput and lowest latency, crucial for feeding data to GPUs during LLM training. HDDs and NFS have significant performance bottlenecks, object storage is not optimized for the access patterns of training, and tape is for archival, not active use.

#### **NEW QUESTION # 19**

You are deploying BCM in a high-availability (HA) configuration. What considerations are critical for ensuring data consistency and minimal downtime during a failover scenario?

- A. Ensure that all BCM instances share a common storage volume for persistent data.
- B. Configure a load balancer to distribute traffic across multiple BCM instances.
- C. Implement a mechanism for automatically failing over the BCM service to a backup instance in case of a primary instance failure.
- D. Configure regular backups of the BCM database to a remote location.
- E. Use a highly available database cluster (e.g., PostgreSQL with replication) for the BCM database.

**Answer: B,C,E**

Explanation:

In a HA configuration, a highly available database cluster is crucial for data consistency. A load balancer distributes traffic across multiple BCM instances, ensuring availability even if one instance fails. An automatic failover mechanism ensures minimal downtime by automatically switching to a backup instance. Sharing a common storage volume is generally not recommended due to potential data corruption issues. Regular backups are important but are more relevant for disaster recovery than immediate failover.

#### **NEW QUESTION # 20**

You are tasked with deploying a DOCA application on a DPU running in an environment with strict security requirements. The application needs to access sensitive data, and you need to ensure that the data is protected at all times. Which of the following security measures should be implemented?

- A. Secure boot: Enable secure boot to ensure that only trusted code is executed on the DPU.
- B. Intrusion detection and prevention: Deploy intrusion detection and prevention systems to detect and prevent unauthorized access to sensitive data.
- C. Data encryption: Encrypt all sensitive data at rest and in transit using strong encryption algorithms.
- D. Enable debug mode: to see all packets
- E. Access control: Implement strict access control policies to limit access to sensitive data to authorized users and processes only.

**Answer: A,B,C,E**

Explanation:

Data encryption, access control, secure boot, and intrusion detection/prevention are all essential security measures for protecting sensitive data. Enable debug mode exposes the sensitive data, and therefore not a solution for secure deployment.

#### **NEW QUESTION # 21**

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