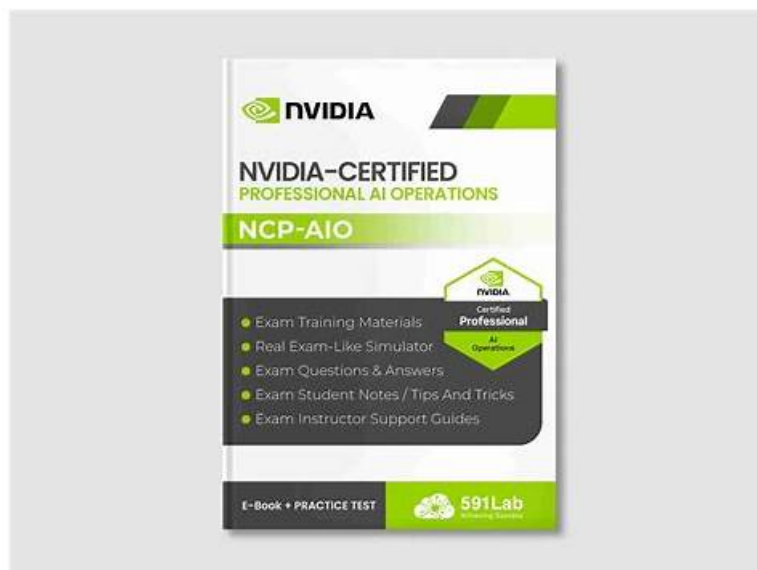


# Latest Training NCP-AIO Materials Offers Candidates First-Grade Actual NVIDIA AI Operations Exam Products



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## NVIDIA NCP-AIO Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"><li>• <b>Workload Management:</b> 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 2	<ul style="list-style-type: none"><li>• <b>Installation and Deployment:</b> 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 3	<ul style="list-style-type: none"><li>• <b>Administration:</b> 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>

Topic 4	<ul style="list-style-type: none"> <li>• <b>Troubleshooting and Optimization: NVI</b>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>
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### NVIDIA AI Operations Sample Questions (Q34-Q39):

#### NEW QUESTION # 34

Your BCM pipeline includes a stage that performs data augmentation. You suspect this stage is a bottleneck. How can you profile and optimize this stage?

- A. Use NVIDIA Nsight Systems to profile the execution of the data augmentation stage.
- **B. All of the above.**
- C. Adjust the data augmentation parameters (e.g., number of augmentations) to reduce the computational load.
- D. Cache the augmented data to avoid redundant computations.
- E. Implement data augmentation on the GPU using libraries like DALI or cuCIM.

**Answer: B**

Explanation:

Nsight Systems helps identify performance bottlenecks. GPU acceleration speeds up computations. Adjusting parameters reduces load. Caching avoids redundant work. All are valid optimization strategies.

#### NEW QUESTION # 35

After a power outage, the 'nvsm' service fails to start, and the logs indicate a database corruption error. What steps should you take to recover the 'nvsm' database? (Select TWO correct answers)

- A. Attempt to repair the database using 'nvsm --repair-db' (if the command exists).
- B. Format all disks on the system.
- **C. Delete the database files and restart 'nvsm' (which will create a new, empty database).**
- **D. Restore the database from a backup, if available.**
- E. Reinstall 'nvsm' .

**Answer: C,D**

Explanation:

The ideal solution is to restore from a backup. If no backup is available, deleting the database files will force 'nvsm' to create a new one. A database corruption error generally means data inconsistency. While 'nvsm-repair-db' is a plausible (but hypothetical) command, It is often safer and quicker just to delete and restart, than repair. Formatting all disks is a drastic and unnecessary measure. Reinstalling the 'nvsm' service won't fix the database corruption itself, it will still point to the corrupted DB files.

#### NEW QUESTION # 36

Which command line utility can be used to verify the proper functioning of GPUDirect RDMA between two GPUs on different

nodes?

- A. 'cuda-memcheck'
- B. 'ibv devinfo'
- C. 'rocm-smi'
- D. 'nvidia-smi'
- E. 'lspci'

**Answer: B**

Explanation:

'ibv\_devinfo' is a command-line utility (part of the InfiniBand Verbs library) that provides information about RDMA devices and their capabilities. This includes verifying that RDMA is enabled and configured correctly, which is essential for GPUDirect RDMA. 'nvidia-smi' monitors GPU status. 'rocm-smi' is for AMD GPUs. 'cuda-memcheck' is for CUDA memory errors. 'lspci' lists PCI devices, but it doesn't specifically verify RDMA functionality.

### NEW QUESTION # 37

You're deploying a multi-GPU VMI container using PyTorch's 'torch.distributed' library for distributed training. You're using 'torch.distributed.launch' to start the training processes. However, you encounter the following error: 'RuntimeError: Address already in use'. What's the MOST likely cause and how can you resolve it?

- A. The error is related to an incorrect CUDA version. Ensure the CUDA version inside the container matches the host system.
- B. This error is not related to VMI containers at all.
- C. The error means the container doesn't have enough memory. Increase the container's memory limit.
- D. The error indicates a conflict with the NVIDIA driver. Update to the latest driver version.
- E. The error is due to multiple processes trying to bind to the same port for inter-process communication. Specify a unique port using the '-master\_port' argument in 'torch.distributed.launch' or setting the 'MASTER\_PORT' environment variable.

**Answer: E**

Explanation:

The 'Address already in use' error in 'torch.distributed' typically arises when multiple processes attempt to bind to the same port for communication. Specifying a unique port for each distributed training job using '-master\_port' or the 'MASTER\_PORT' environment variable resolves this conflict. This prevents processes from interfering with each other.

### NEW QUESTION # 38

A user reports that their AI training job running on a BCM-managed cluster is experiencing slow I/O performance. What steps would you take to diagnose and resolve the issue, considering the potential involvement of storage?

- A. Monitor the storage system's performance metrics (IOPS, latency, throughput) using the storage vendor's monitoring tools.
- B. Inspect the pod's logs for any I/O related errors or warnings.
- C. Check the network bandwidth between the compute nodes and the storage system using \*iperf or similar tools.
- D. Increase the pod's CPU and memory limits to improve I/O performance.
- E. Verify that the correct storage class is being used for the persistent volumes used by the training job.

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

Explanation:

Network bandwidth can be a bottleneck. Storage system metrics are crucial for identifying storage-related issues. The storage class determines the underlying storage type and performance characteristics. Pod logs might contain error messages. Increasing CPU/memory won't directly solve I/O performance issues if the bottleneck is elsewhere.

### NEW QUESTION # 39

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