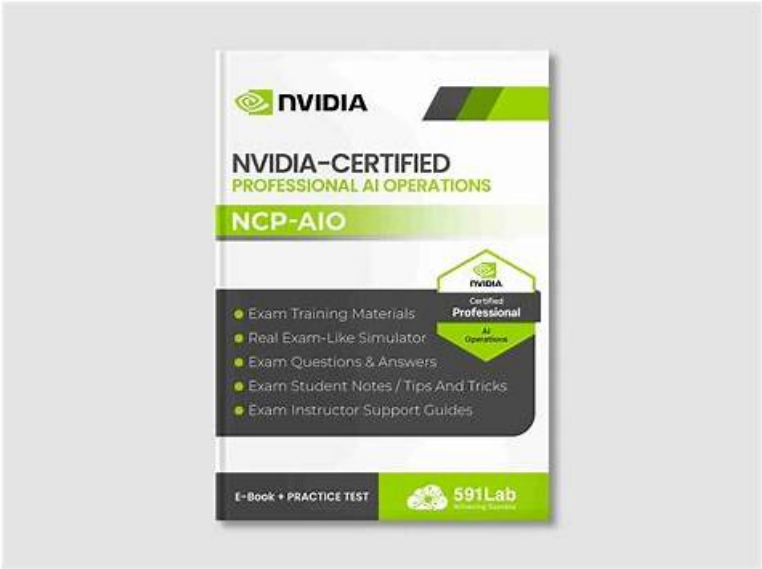
100% Pass 2026 Professional NVIDIA NCP-AIO: NVIDIA AI Operations Lead2pass Review



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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 (Q14-Q19):

NEW QUESTION # 14
You are designing a data center that must support both interactive AI development and large-scale batch training jobs. You want to maximize GPU utilization while ensuring that interactive users have a responsive experience. Which of the following strategies is MOST effective?

- A. Use NVIDIA MPS (Multi-Process Service) to allow interactive users and batch jobs to share GPUs concurrently, and implement QOS to prioritize interactive workloads.
- B. Schedule batch jobs to run only during off-peak hours when interactive users are not active.
- C. Oversubscribe all GPUs to maximize utilization, even if it degrades interactive performance.
- D. Allocate dedicated GPUs to interactive users and run batch jobs on idle CPUs.
- E. Run all workloads on a single large GPU server to simplify management.

Answer: A

Explanation:
NVIDIA MPS allows multiple processes to share a GPU concurrently, which maximizes utilization. QOS ensures that interactive workloads receive priority, maintaining a responsive experience. Dedicated GPUs for interactive users wastes resources when they are idle. Scheduling batch jobs for off-peak hours is limiting and inefficient. Oversubscribing without QOS can severely impact interactive performance. Running all workloads on a single server creates a single point of failure and limits scalability.

NEW QUESTION # 15
What is the primary benefit of using GPUDirect Storage (GDS) in an AI data center?

- A. Automatic data tiering based on access frequency.
- B. Increased storage capacity by compressing data on the fly.
- C. Reduced CPU utilization during data transfers from storage to GPUs.
- D. Simplified storage management through centralized control.
- E. Enhanced data security with end-to-end encryption.

Answer: C

Explanation:
GPUDirect Storage allows data to be transferred directly from storage to GPU memory, bypassing the CPU and system memory. This reduces CPU utilization and improves overall performance, particularly for large datasets.

NEW QUESTION # 16
A Slurm user is experiencing a frequent issue where a Slurm job is getting stuck in the "PENDING" state and unable to progress to

the "RUNNING" state.
Which Slurm command can help the user identify the reason for the job's pending status?

- A. squeue -u <user_list>
- B. sinfo -R
- C. sacct -j <job[.step]>
- D. scontrol show job <jobid>

Answer: D

Explanation:
Comprehensive and Detailed Explanation From Exact Extract:
The Slurm commandscontrol show job <jobid>provides detailed information about a specific job, including its current status and, crucially, the reason why a job might be pending. This command shows job details such as resource requirements, dependencies, and any issues blocking the job from running.
* sinfo -Rdisplays information about nodes and their reasons for being in various states but does not provide job-specific reasons.
* sacct -jshows accounting data for jobs but typically does not explain pending causes.
* squeue -ulists jobs by user but does not detail the pending reasons.
Hence,scontrol show job <jobid>is the appropriate command to diagnose why a Slurm job remains in the pending state.

NEW QUESTION # 17
You are deploying a DOCA application on a BlueField-3 DPU. Which of the following components are essential for enabling RDMA communication between the DPU and the host server?

- A. Mellanox OFED (MLNX_OFED) driver on both the DPU and the host.
- B. Appropriate firewall rules configured on both the host and the DPU.
- C. Correctly configured PCI passthrough or SR-IOV on the host for the DPU's RDMA interfaces.
- D. DOCA SDK installed on the DPU only.
- E. Kernel bypass techniques like DPDK only on the DPU.

Answer: A,C

Explanation:
RDMA communication requires the correct drivers (MLNX_OFED) on both ends and proper PCI passthrough or SR-IOV configuration on the host to expose the DPU's RDMA capabilities. DOCA SDK helps build the applications, firewall rules are orthogonal and DPDK is one of the option. Kernel bypass on both host and dpu is needed.

NEW QUESTION # 18
Consider the following Kubernetes pod definition:
What does the 'nvidia.com/gpu: 1' setting achieve?

- A. It allows the container to access NVIDIA drivers and libraries.
- B. It reserves one virtual GPU (vGPU) instance for the container.
- C. It allocates one full GPU to the container.
- D. It ensures that the pod is scheduled on a node with at least one NVIDIA GPU.
- E. It limits the container's GPU memory usage to IGB.

Answer: A,C,D

Explanation:
The 'nvidia.com/gpu: 1 ' resource request ensures the pod is scheduled on a node with a GPU. It effectively allocates one full GPU to the container (unless using vGPU). It also implicitly provides access to NVIDIA drivers and libraries through the device plugin mechanism. It doesn't directly limit memory usage or reserve vGPU instances; those require additional configurations.

NEW QUESTION # 19
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