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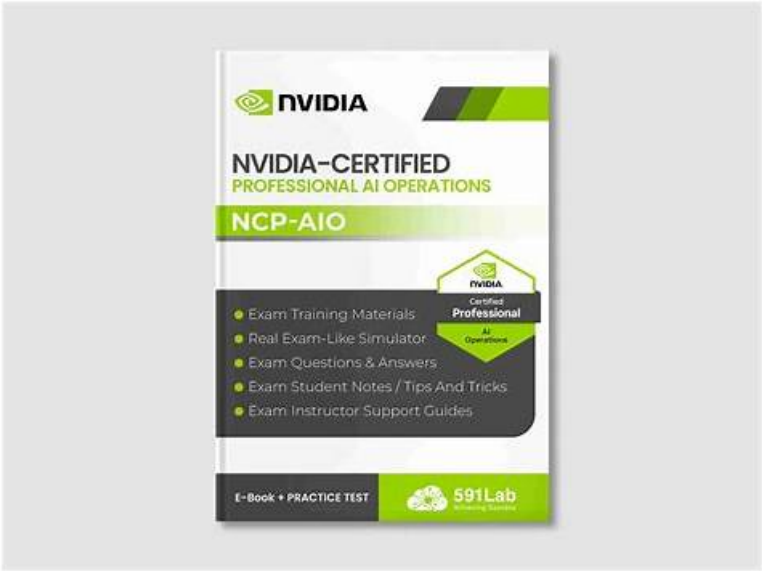


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## Top Popular NCP-AIO Exams Free PDF | Pass-Sure Valid NCP-AIO Exam Test: NVIDIA AI Operations

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## NVIDIA NCP-AIO Exam Syllabus Topics:

| Topic | Details |
|---|---|
| Topic 1 | • 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 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 | • 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 4 | • 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. |

## NVIDIA AI Operations Sample Questions (Q63-Q68):

**NEW QUESTION # 63**
You are tasked with deploying a TensorFlow container from NGC on a Kubernetes cluster. The container requires specific NVIDIA drivers and libraries. Which of the following steps are essential to ensure successful deployment and GPU utilization?

- A. Ensure the NVIDIA Container Toolkit is installed and configured on all worker nodes.
- B. Deploy the container without specifying any resource limits or requests to allow it to utilize all available GPUs.
- C. Verify that the NVIDIA drivers on the host machines match the versions required by the container.
- D. Create a Kubernetes DaemonSet to automatically deploy and manage the NVIDIA device plugin on all nodes.
- E. Bypass the NVIDIA Container Toolkit and directly use Docker to deploy the container.

**Answer: A,C,D**

Explanation:
A, C, and D are correct. The NVIDIA Container Toolkit enables GPU access within containers. Matching driver versions are crucial for compatibility. The device plugin exposes GPU resources to Kubernetes. B is incorrect because resource limits are important for scheduling and stability. E is incorrect; the NVIDIA Container Toolkit is the recommended method for GPU access within containers.

**NEW QUESTION # 64**
You are deploying a multi-GPU training job using a container from NGC on a Slurm cluster. The container expects the number of GPUs to be available in the 'CUDA VISIBLE DEVICES' environment variable. How do you ensure this variable is correctly set within the Slurm job script?

- A. Configure the NVIDIA Container Toolkit to automatically detect and set 'CUDA VISIBLE DEVICES'.
- B. Utilize the Slurm environment variable 'SLURM JOB GPUS' to dynamically set 'CUDA_VISIBLE DEVICES' in the job script (e.g., 'export
- C. Use the Slurm command 'srun' with the '-gpus' option to allocate GPUs and automatically set
- D. Define the "CUDA VISIBLE DEVICES' environment variable in the containers Docket-file.
- E. Set the environment variable manually in the Slurm job script to a fixed value (e.g.,

**Answer: B,C**

Explanation:
B and D are correct. 'srun -gpus' handles GPU allocation and sets the environment variable. 'SLURM JOB GPUS provides a dynamic way to access allocated GPUs within the script. A is incorrect as it doesn't adapt to the actual allocation. C is incorrect because it's not a Slurm configuration. E depends on the specific toolkit version and might not be reliable without explicit

configuration in the job script.

**NEW QUESTION # 65**
A Fleet Command system administrator wants to create an organization user that will have the following rights:
For locations - read only
For Applications - read/write/admin
For Deployments - read/write/admin
For Dashboards - read only
What role should the system administrator assign to this user?

- A. Fleet Command Admin
- B. Fleet Command Supporter
- C. Fleet Command Operator
- D. Fleet Command Viewer

**Answer: C**

Explanation:
Comprehensive and Detailed Explanation From Exact Extract:
TheFleet Command Operatorrole is designed to provide users with read-only access to locations and dashboards while granting full read/write/admin rights for applications and deployments. This matches the described access requirements where the user can manage applications and deployments but only view locations and dashboards without modification rights. Other roles like Fleet Command Admin have broader permissions, Supporter has more limited access, and Viewer is primarily read-only for all resources.

**NEW QUESTION # 66**
You are using Ceph object storage to store your training dat
a. You observe that your training jobs are consistently slow, and monitoring tools indicate high latency when accessing the Ceph cluster. What are the possible causes that can contribute to this behavior?

- A. An incorrectly configured or malfunctioning Ceph monitor node.
- B. Insufficient CPU and Memory on the Ceph Monitors
- C. Insufficient network bandwidth between the compute nodes and the Ceph cluster.
- D. The Ceph cluster's placement groups are not optimally configured for the workload, causing uneven data distribution.
- E. OSDs (Object Storage Devices) in the Ceph cluster are overloaded, leading to slow read/write operations.

**Answer: C,D,E**

Explanation:
High latency in Ceph can stem from several issues: network congestion limits data transfer, overloaded OSDs cannot handle the I/O load, and suboptimal placement groups lead to hotspots. A malfunctioning monitor would primarily affect cluster availability and metadata operations, not necessarily the data I/O performance directly. Insufficient CPU and Memory on OSD's as well may cause issues as well.

**NEW QUESTION # 67**
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. sacct -j <job[.step]>
- B. squeue -u <user_list>
- C. scontrol show job <jobid>
- D. sinfo -R

**Answer: C**

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 # 68**
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