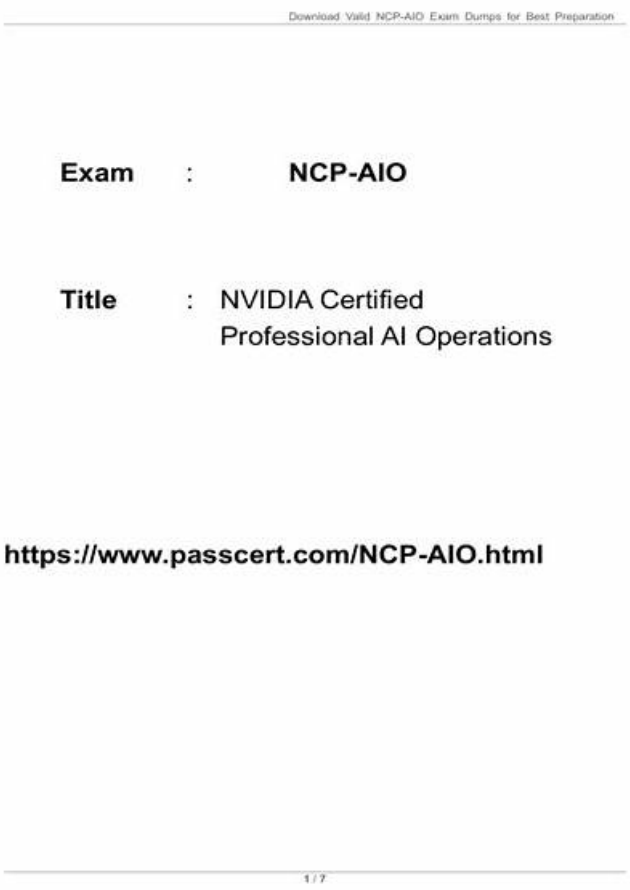
Valid Exam NCP-AIO Practice - NCP-AIO Updated Dumps



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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	• 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	• 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.

NCP-AIO Certification Training & NCP-AIO Practice Test & NCP-AIO Exam Dumps

By reviewing these results, you will be able to know and remove your mistakes. These NCP-AIO practice exams are created as per the pattern of the NVIDIA AI Operations (NCP-AIO) real examination. Therefore, NVIDIA AI Operations (NCP-AIO) mock exam takers will experience the real exam environment. It will calm down their nerves so they can appear in the NCP-AIO final test without anxiety or fear.

NVIDIA AI Operations Sample Questions (Q16-Q21):

NEW QUESTION # 16
You are managing an on-premises cluster using NVIDIA Base Command Manager (BCM) and need to extend your computational resources into AWS when your local infrastructure reaches peak capacity.
What is the most effective way to configure cloudbursting in this scenario?

- A. Set up a standby deployment in AWS and manually switch workloads to the cloud during peak times.
- B. Use BCM's built-in load balancer to distribute workloads evenly between on-premises and cloud resources without any pre-configuration.
- C. Use BCM's Cluster Extension feature to automatically provision AWS resources when local resources are exhausted.
- D. Manually provision additional cloud nodes in AWS when the on-premises cluster reaches its limit.

Answer: C

Explanation:
NVIDIA Base Command Manager (BCM) provides a Cluster Extension feature that enables automatic provisioning and scaling of cloud resources (e.g., AWS) when on-premises capacity is fully utilized. This cloudbursting capability allows seamless extension of computational resources without manual intervention, improving flexibility and reducing downtime during peak demand.

NEW QUESTION # 17
You have a hybrid environment with some GPUs connected via NVLink and others connected via PCIe. You want to use 'nvsm' to manage only the NVLink fabric. How can you configure 'nvsm' to ignore the PCIe-connected GPUs?

- A. Use the 'nvsm -ignore-pcie' command-line option when starting the service.
- B. There is no way to configure 'nvsm' to ignore specific GPUs.

- C. Configure a whitelist in 'nvsm.conf to include only the NVLink devices by their NVLink IDs.
- D. Update the system BIOS to disable the PCIe slots.
- E. Configure a blacklist in 'nvsm.conf to exclude the PCIe devices by their PCI IDs.

Answer: E

Explanation:
Typically, you can configure 'nvsm' to ignore specific GPUs by creating a blacklist in the 'nvsm.conf file. This blacklist would contain the PCI IDs of the PCIe-connected GPUs. 'nvsm' is designed to manage fabric links. 'nvsm' does not have a command line option to ignore PCIe connected GPUs.

NEW QUESTION # 18
A team is running a large distributed training job across multiple nodes in your Run.ai cluster. They are experiencing significant performance degradation due to network latency between the nodes. What are the possible solutions you can implement with Run.ai and potentially ACM to mitigate this issue?

- A. Configure node affinity rules to ensure that all nodes participating in the distributed training job are located within the same rack or network segment.
- B. Increase the number of GPUs requested per node to reduce inter-node communication.
- C. Implement data parallelism instead of model parallelism.
- D. Use Run.ai's built-in network acceleration features.
- E. Enable RDMA (Remote Direct Memory Access) and ensure proper network configuration for low-latency communication.

Answer: A,E

Explanation:
RDMA is a key technology for reducing network latency in distributed training. It allows direct memory access between GPUs on different nodes, bypassing the CPU and reducing overhead. Configuring node affinity to keep the nodes within the same rack or network segment minimizes physical distance and network hops, further reducing latency. Increasing GPUs per node can help but is not directly addressing the inter- node latency issue. Data vs. model parallelism is an application-level choice. Run.ai doesn't have built-in network acceleration as a specific feature, but it supports the underlying technologies like RDMA.

NEW QUESTION # 19
A DGX H100 system in a cluster is showing performance issues when running jobs.
Which command should be run to generate system logs related to the health report?

- A. nvsm show logs --save
- B. nvsm health --dump-log
- C. nvsm dump health
- D. nvsm get logs

Answer: C

Explanation:
For troubleshooting and performance optimization on NVIDIA DGX systems such as DGX H100, the NVIDIA System Management (nvsm) tool is used to gather system health and diagnostic data. The command nvsm dump health is the correct command to generate and export detailed system logs related to the health report of the DGX system.

NEW QUESTION # 20
A cloud engineer is looking to provision a virtual machine for machine learning using the NVIDIA Virtual Machine Image (VMI) and Rapids.
What technology stack will be set up for the development team automatically when the VMI is deployed?

- A. Cent OS, Docker-CE, NVIDIA Container Toolkit, CSP CLI, NGC CLI
- B. Ubuntu Server, Docker-CE, NVIDIA Container Toolkit, CSP CLI, NGC CLI, NVIDIA Driver, Rapids
- C. Ubuntu Server, Docker-CE, NVIDIA Container Toolkit, CSP CLI, NGC CLI, NVIDIA Driver
- D. Ubuntu Server, Docker-CE, NVIDIA Container Toolkit, CSP CLI, NGC CLI

Answer: B

Explanation:
Comprehensive and Detailed Explanation From Exact Extract:
The NVIDIA Virtual Machine Image (VMI) for machine learning provisioning automatically sets up anUbuntu Serverenvironment with essential components including Docker-CE, NVIDIA Container Toolkit, CSP CLI, NGC CLI, NVIDIA Driver, andRapids-a suite of GPU-accelerated data science and analytics libraries. This comprehensive stack enables immediate development and deployment of ML workloads.

NEW QUESTION # 21
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