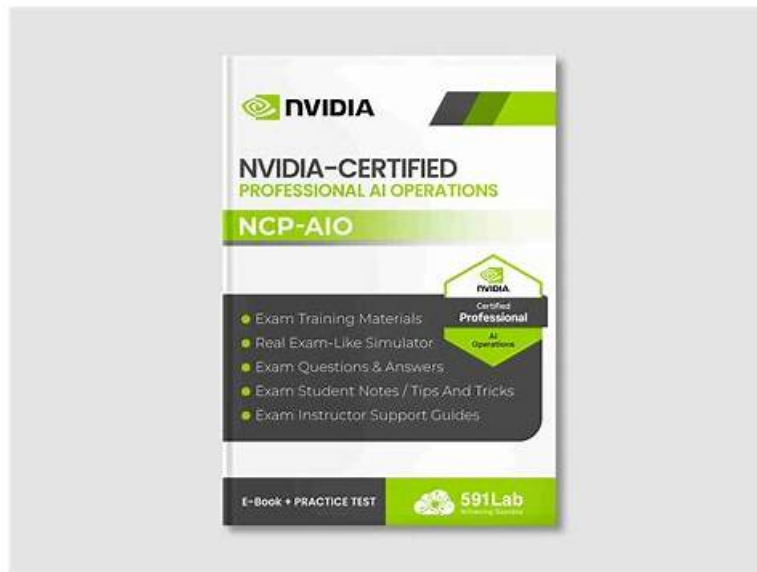


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The second version is the web-based format of the NVIDIA AI Operations (NCP-AIO) practice test. Browsers such as Internet Explorer, Microsoft Edge, Firefox, Safari, and Chrome support the web-based practice exam. You don't have to install excessive plugins or software to attempt this NVIDIA AI Operations (NCP-AIO) practice test.

NVIDIA NCP-AIO Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">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	<ul style="list-style-type: none">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	<ul style="list-style-type: none">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 4	<ul style="list-style-type: none"> • Troubleshooting and Optimization: NVI 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.
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NVIDIA AI Operations Sample Questions (Q24-Q29):

NEW QUESTION # 24

You are setting up BCM with LDAP authentication. After configuring the LDAP settings in , users are still unable to log in. You've verified that the LDAP server is reachable. Which of the following is the MOST likely reason for the authentication failure?

- A. The BCM service account does not have permission to query the LDAP directory.
- **B. The LDAP bind user credentials in are incorrect or lack sufficient privileges.**
- C. The LDAP server is not configured to allow anonymous binds.
- D. The LDAP schema is not compatible with BCM.
- E. The BCM server's clock is not synchronized with the LDAP server's clock.

Answer: B

Explanation:

The most likely reason for LDAP authentication failure is incorrect or insufficient privileges for the LDAP bind user. The bind user is used by BCM to authenticate with the LDAP server and search for user information. If the credentials are wrong or the bind user lacks the necessary permissions, authentication will fail. Verifying the bind user credentials and permissions is the most crucial troubleshooting step. The BCM service account is typically not involved in LDAP authentication. LDAP server usually not require anonymouse binds.

NEW QUESTION # 25

A system administrator notices that jobs are failing intermittently on Base Command Manager due to incorrect GPU configurations in Slurm. The administrator needs to ensure that jobs utilize GPUs correctly.

How should they troubleshoot this issue?

- A. Ensure that GPU resource limits have been correctly defined in Slurm's configuration file for each job type.
- B. Increase the number of GPUs requested in the job script to avoid using unconfigured GPUs.
- C. Verify that non-MIG GPUs are automatically configured in Slurm when detected, and adjust configurations if needed.
- **D. Check if MIG (Multi-Instance GPU) mode has been enabled incorrectly and reconfigure Slurm accordingly.**

Answer: D

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Misconfiguration related to MIG mode can cause Slurm to improperly allocate GPUs, leading to job failures.

The administrator should verify whether MIG has been enabled on the GPUs and ensure that Slurm's configuration matches the hardware setup. If MIG is enabled, Slurm must be configured to recognize and schedule MIG partitions correctly to avoid resource conflicts.

NEW QUESTION # 26

You are running a distributed TensorFlow training job on your Kubernetes cluster. The job consists of a parameter server and multiple worker pods. To maximize GPU utilization and ensure efficient communication, you want to place the parameter server and workers on nodes that are as close as possible within the network topology. Which Kubernetes feature can assist you in achieving this?

- A. Pod Priority.
- B. NodeSelector.
- C. Pod anti-affinity.
- D. Resource Quotas.
- E. Topology Spread Constraints.

Answer: E

Explanation:

The correct answer is C. Topology Spread Constraints allow you to control how pods are spread across your cluster based on topology domains like nodes, racks, or zones. By specifying the relevant topology domain (e.g., for nodes), you can encourage the scheduler to place related pods (parameter server and workers) on the same or nearby nodes. Pod anti-affinity (A) would work to keep pods separated. NodeSelector (B) can place pods on specific nodes, but doesn't inherently understand network topology. Resource Quotas (D) and Pod Priority (E) don't directly address pod placement based on network proximity.

NEW QUESTION # 27

A critical AI model inference application requires a specific version of the CUDA runtime. You deploy a containerized application using Fleet Command. How do you ensure the deployed container uses the correct CUDA version, minimizing conflicts with the host system?

- A. Install the required CUDA version directly on each edge device's host system.
- B. Build a Docker image that includes the required CUDA runtime version and specify this image in the Fleet Command deployment manifest.
- C. Use the latest available CUDA drivers on the host system and hope for compatibility.
- D. Let the application install its own version of CUDA on each device during initialization.
- E. Rely on Fleet Command to automatically install the correct CUDA version on each device.

Answer: B

Explanation:

Containerization with a pre-defined CUDA version is the most reliable and isolated approach. Installing CUDA on the host (A) can lead to conflicts. Hoping for compatibility (B) is unreliable. Fleet Command doesn't automatically manage CUDA versions (D). Allowing the application to install CUDA (E) can cause system instability.

NEW QUESTION # 28

You are tasked with implementing a data lake for AI training. The data lake must support various data formats (e.g., images, text, tabular data) and be accessible by multiple AI frameworks (e.g., TensorFlow, PyTorch). Which of the following technologies and storage characteristics are most suitable for this data lake?

- A. A NoSQL database system optimized for key-value storage.
- B. A traditional relational database management system (RDBMS) with a fixed schema.
- C. Hadoop Distributed File System (HDFS) with Parquet or ORC file formats.
- D. Tape Archival system.
- E. Object storage (e.g., AWS S3, Azure Blob Storage) with support for data partitioning and a metadata catalog (e.g., AWS Glue, Apache Hive Metastore).

Answer: C,E

Explanation:

HDFS with columnar file formats like Parquet and ORC is a common choice for data lakes due to its scalability and support for various data formats. Object storage with data partitioning and a metadata catalog provides a flexible and cost-effective alternative, allowing for efficient data discovery and access. RDBMS systems are not well-suited for unstructured data or changing schemas.

NoSQL databases may be suitable for certain types of data, but not as a general-purpose data lake solution. Tape systems are not appropriate for general-purpose data lakes.

NEW QUESTION # 29

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