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NVIDIA NCP-AIO Exam Syllabus Topics:

Topic	Details
Topic 1	• 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 2	• 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 3	• 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	• 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 (Q46-Q51):

NEW QUESTION # 46
You are deploying AI applications at the edge and want to ensure they continue running even if one of the servers at an edge location fails.
How can you configure NVIDIA Fleet Command to achieve this?

- A. Enable high availability for edge clusters.
- B. Set up over-the-air updates to automatically restart failed applications.
- C. Configure Fleet Command's multi-instance GPU (MIG) to handle failover.
- D. Use Secure NFS support for data redundancy.

Answer: A

Explanation:
Comprehensive and Detailed Explanation From Exact Extract:
To ensure continued operation of AI applications at the edge despite server failures, NVIDIA Fleet Command allows administrators toenable high availability (HA) for edge clusters. This HA configuration ensures redundancy and failover capabilities, so applications remain operational when an edge server goes down.
Over-the-air updates handle software patching but do not inherently provide failover. MIG manages GPU resource partitioning, not failover. Secure NFS supports storage redundancy but is not the primary solution for application failover.

NEW QUESTION # 47
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 schema is not compatible with BCM.
- C. The BCM server's clock is not synchronized with the LDAP server's clock.
- D. The LDAP bind user credentials in are incorrect or lack sufficient privileges.
- E. The LDAP server is not configured to allow anonymous binds.

Answer: D

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 # 48
What are the key considerations when selecting a storage solution for an AI data center that requires both high performance and scalability?

- A. Ignore the long-term data growth projections.
- B. Consider the balance of performance (IOPS, throughput), capacity, scalability, and cost.
- C. Only consider capacity; performance can be optimized later.
- D. Always choose the newest technology, regardless of cost or suitability.
- E. Focus solely on the lowest possible cost per terabyte.

Answer: B

Explanation:

A balanced approach is essential. Performance ensures efficient training and inference, capacity accommodates growing datasets, scalability allows for future expansion, and cost is a practical constraint. Ignoring any of these factors can lead to suboptimal outcomes.

NEW QUESTION # 49
You are monitoring the resource utilization of a DGX SuperPOD cluster using NVIDIA Base Command Manager (BCM). The system is experiencing slow performance, and you need to identify the cause.
What is the most effective way to monitor GPU usage across nodes?

- A. Use nvidia-smi on each node to monitor GPU utilization manually.
- B. Run the top command on each node to check CPU and memory usage.
- C. Use the Base View dashboard to monitor GPU, CPU, and memory utilization in real-time.
- D. Check the job logs in Slurm for any errors related to resource requests.

Answer: C

Explanation:
Comprehensive and Detailed Explanation From Exact Extract:
TheBase View dashboardin NVIDIA Base Command Manager provides a centralized and real-time overview of GPU, CPU, and memory utilization across all nodes in the DGX SuperPOD cluster. This tool allows administrators to quickly identify bottlenecks and resource usage patterns efficiently, unlike manually checking logs or running commands node-by-node.

NEW QUESTION # 50
A system administrator of a high-performance computing (HPC) cluster that uses an InfiniBand fabric for high-speed interconnects between nodes received reports from researchers that they are experiencing unusually slow data transfer rates between two specific compute nodes. The system administrator needs to ensure the path between these two nodes is optimal.
What command should be used?

- A. ibtracert
- B. ibping
- C. ibnetdiscover
- D. ibstatus

Answer: A

Explanation:
Comprehensive and Detailed Explanation From Exact Extract:
To verify the optimal communication path and diagnose issues between two nodes in an InfiniBand fabric, theibtracertcommand is used. It traces the route that InfiniBand packets take through the fabric, identifying each hop and any potential bottlenecks or faulty links along the path.
* ibstatusprovides status information about local InfiniBand devices and ports.
* ibpingtests connectivity and latency between nodes.
* ibnetdiscoverdiscovers and prints the topology of the InfiniBand fabric but does not trace specific paths.
Therefore,ibtracertis the appropriate tool for path optimization verification between two compute nodes.

NEW QUESTION # 51
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