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1 / 5

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## NVIDIA NCP-AIO Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"> <li>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.</li> </ul>
Topic 2	<ul style="list-style-type: none"> <li>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.</li> </ul>
Topic 3	<ul style="list-style-type: none"> <li>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.</li> </ul>
Topic 4	<ul style="list-style-type: none"> <li>Troubleshooting and Optimization: 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.</li> </ul>

## NVIDIA AI Operations Sample Questions (Q66-Q71):

### NEW QUESTION # 66

Your BCM pipeline integrates with a remote REST API to fetch data

a. The API occasionally returns errors or becomes unavailable, causing the pipeline to fail. How can you make the pipeline more resilient to these API failures?

- A. All of the above.
- B. Implement error logging and monitoring to track API failures.
- C. Use a circuit breaker pattern to prevent the pipeline from overwhelming the API during outages.
- D. Cache the API responses to reduce the dependency on the remote API.
- E. Implement retry logic with exponential backoff to handle transient API errors.

**Answer: A**

Explanation:

Retry logic handles transient errors. Circuit breakers prevent API overload. Caching reduces API dependency. Monitoring tracks failures. All these techniques enhance pipeline resilience.

### NEW QUESTION # 67

Your organization is deploying an AI workload that requires high-throughput access to shared storage across multiple servers. The workload involves both training and inference tasks that need fast read and write speeds.

Which storage architecture would best support this AI workload?

- A. A high-performance shared storage system that supports both high read and write IO performance.
- B. Prioritize write performance over read performance since training tasks dominate AI workflows.
- C. Use local storage on each server to minimize network traffic between nodes.
- D. Use SSD-based shared storage systems to save costs while scaling up storage capacity.

**Answer: A**

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

For AI workloads involving both training and inference across multiple servers, a high-performance shared storage system that supports both high read and write I/O performance is essential. This ensures fast data access and efficient coordination between distributed compute nodes, preventing bottlenecks in data throughput. Local storage may minimize network traffic but lacks the necessary data sharing and coordination. Prioritizing only write performance neglects inference workload needs, and cost-saving SSD options might not deliver the required performance at scale. Hence, option C is the best choice for balanced, high-throughput AI workloads.

### NEW QUESTION # 68

A data scientist is training a deep learning model and notices slower than expected training times. The data scientist alerts a system administrator to inspect the issue. The system administrator suspects the disk IO is the issue.

What command should be used?

- A. tcpdump
- B. nvidia-smi
- C. iostat
- D. htop

**Answer: C**

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

To diagnose disk IO performance issues, the system administrator should use the iostat command, which reports CPU statistics and input/output statistics for devices and partitions. It helps identify bottlenecks in disk throughput or latency affecting application performance.

\* tcpdump is used for network traffic analysis, not disk IO.

\* nvidia-smi monitors NVIDIA GPU status but not disk IO.

\* htop shows CPU, memory, and process usage but provides limited disk IO details.

Therefore, iostat is the appropriate tool to assess disk IO performance and diagnose bottlenecks impacting training times.

### NEW QUESTION # 69

You are implementing a DOCA application on a BlueField-3 DPU that requires secure communication with a remote server. Which of the following methods can be used to establish a secure connection, and what are the key considerations?

- A. Using MACsec: Implement MACsec on ethernet to ensure communication link level security.
- B. Using SSH tunneling: Establish an SSH tunnel between the DPU and the remote server to forward traffic securely, ensuring proper authentication and authorization.
- C. Using TLS/SSL: Implement TLS/SSL encryption for all communication channels, ensuring proper certificate management and key exchange.
- D. Using IPsec: Configure IPsec tunnels between the DPU and the remote server for secure IP-layer communication, considering encryption algorithms and authentication methods.
- E. Using DOCA Comm Channel with encryption: Enable encryption within the DOCA Comm Channel for secure control message exchange, managing encryption keys appropriately.

**Answer: B,C,D**

Explanation:

TLS/SSL, IPsec, and SSH tunneling are all viable options for establishing secure communication. Key considerations include certificate management, encryption algorithms, authentication methods, and key exchange mechanisms. MACsec is more of a link level security. Comm channel doesn't have security mechanism defined.

## NEW QUESTION # 70

When configuring node auto-scaling within BCM for an AI cluster, which of the following metrics would be the most effective indicators for triggering scale-up events, ensuring efficient resource utilization for AI workloads?

- A. Network I/O across the cluster.
- B. Disk I/O across the cluster.
- **C. GPU utilization across the cluster.**
- D. Memory utilization across the cluster.
- E. CPU utilization across the cluster.

**Answer: C**

Explanation:

For AI workloads, GPU utilization is the primary driver. While CPU, memory, network, and disk I/O are relevant, GPU bottleneck has most impact on model training and inference performance. Autoscaling should primarily react to GPU demand to provide optimal performance.

## NEW QUESTION # 71

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