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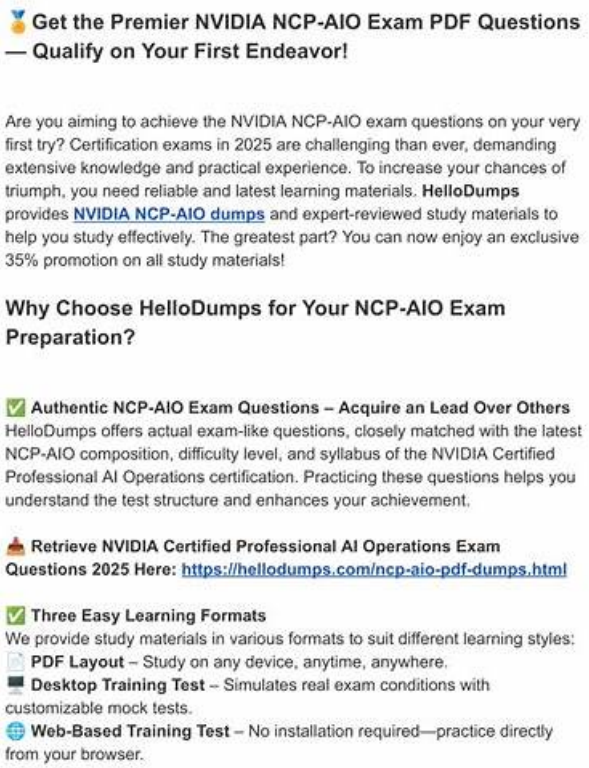

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The second format is a web-based format that can be accessed from browsers like Firefox, Microsoft Edge, Chrome, and Safari. It means you don't need to download or install any software or plugins to take the NVIDIA AI Operations practice test. The web-based format of the NVIDIA NCP-AIO Certification Exams practice test supports all operating systems. The third and last format is desktop software format which can be accessed after installing the software on your NVIDIA AI Operations (NCP-AIO) Windows Pc or Laptop. These formats are built especially for the students so they don't stop preparing for the NVIDIA AI Operations (NCP-AIO) certification.

NVIDIA NCP-AIO Exam Syllabus Topics:

Topic	Details
Topic 1	• 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 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	• 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 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.

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NVIDIA AI Operations Sample Questions (Q60-Q65):

NEW QUESTION # 60
Which command line utility can be used to verify the proper functioning of GPUDirect RDMA between two GPUs on different nodes?

- A. 'cuda-memcheck'
- B. 'ibv devinfo'
- C. Ispci'
- D. rocminfo'
- E. nvidia-smi'

Answer: B

Explanation:
'ibv_devinfo' is a command-line utility (part of the InfiniBand Verbs library) that provides information about RDMA devices and their capabilities. This includes verifying that RDMA is enabled and configured correctly, which is essential for GPUDirect RDMA. 'nvidia-smi' monitors GPU status. 'rocminfo' is for AMD GPUs. 'cuda-memcheck' is for CUDA memory errors. 'Ispci' lists PCI devices, but it doesn't specifically verify RDMA functionality.

NEW QUESTION # 61
You are managing a high-performance computing environment. Users have reported storage performance degradation, particularly during peak usage hours when both small metadata-intensive operations and large sequential I/O operations are being performed simultaneously. You suspect that the mixed workload is causing contention on the storage system.
Which of the following actions is most likely to improve overall storage performance in this mixed workload environment?

- A. Separate metadata-intensive operations and large sequential I/O operations by using different storage pools for each type

of workload.

- B. Disable GPUDirect Storage (GDS) during peak hours to reduce I/O load on the Lustre file system.
- C. Increase the number of Object Storage Targets (OSTs) to handle more metadata operations.
- D. Reducing stripe count for large files would decrease parallelism, likely worsening performance for large sequential I/O operations.

Answer: A

Explanation:
Comprehensive and Detailed Explanation From Exact Extract:
Separating metadata-intensive workloads and large sequential I/O operations ontodifferent storage pools isolates contention points and optimizes performance for each workload type. Metadata operations benefit from dedicated resources optimized for small, random access, while large sequential I/O requires high- throughput storage. This separation minimizes conflicts and improves overall system responsiveness.

NEW QUESTION # 62
A distributed training application using CUDA-Aware MPI and GPUDirect RDMA is experiencing performance degradation over time. You've ruled out network congestion and GPU utilization issues. What are TWO potential causes related to memory management that you should investigate?

- A. CUDA context switching overhead
- B. GPU memory fragmentation
- C. Insufficient system RAM
- D. Improper use of' MPI_Barrier'
- E. CPU pinning issues

Answer: A,B

Explanation:
GPU memory fragmentation can lead to smaller and smaller contiguous blocks of memory, making it difficult to allocate larger buffers needed for training, degrading performance over time. CUDA context switching overhead, if not managed correctly, can also significantly impact performance, especially in distributed environments where frequent communication and data transfers occur. CPU pinning affects process scheduling but doesn't directly cause performance degradation over time related to memory. Insufficient system RAM would likely cause more immediate errors or swapping. Improper use of 'MPI_Barrier' affects synchronization, not memory management specifically.

NEW QUESTION # 63
You're managing a large-scale AI inference deployment using multiple NVIDIA GPUs across several servers. You need to implement a robust monitoring solution to track GPU utilization, memory usage, and error rates across the entire infrastructure. Which combination of tools would provide the MOST comprehensive monitoring capabilities?

- A. Ganglia for cluster monitoring, Cacti for network graphing, and MRTG for traffic monitoring.
- B. NVIDIA Nsight Systems for performance profiling, ELK stack (Elasticsearch, Logstash, Kibana) for log analysis, and 'top' for system-level monitoring.
- C. NVIDIA Data Center GPU Manager (DCGM) for GPU-level metrics, Prometheus for data collection, and Grafana for visualization.
- D. "nvidia-smi' for GPU metrics, Nagios for alerting, and Graphite for data storage.
- E. Collectd for system metrics, InfluxDB for time-series data storage, and Chronograf for visualization.

Answer: C

Explanation:
DCGM provides detailed GPU-specific metrics. Prometheus is a popular time-series database and monitoring system that excels at collecting data from various sources. Grafana provides powerful visualization capabilities. This combination offers a scalable and comprehensive monitoring solution. Other options might provide some of the necessary functionality, but lack the integrated GPU-specific monitoring or scalability features of the DCGM-Prometheus-Grafana stack. Nsight Systems is primarily for profiling, not continuous monitoring.

NEW QUESTION # 64
A system administrator is troubleshooting a Docker container that crashes unexpectedly due to a segmentation fault. They want to generate and analyze core dumps to identify the root cause of the crash.
Why would generating core dumps be a critical step in troubleshooting this issue?

- A. Core dumps capture the memory state of the process at the time of the crash.
- B. Core dumps prevent future crashes by stopping any further execution of the faulty process.
- C. Core dumps restore the process to its previous state, often fixing the error-causing crash.
- D. Core dumps provide real-time logs that can be used to monitor ongoing application performance.

Answer: A

Explanation:
Comprehensive and Detailed Explanation From Exact Extract:
Core dumps capture thememory state of a process at the time of its crash, providing a snapshot useful for post- mortem debugging. Analyzing core dumps helps identify the cause of segmentation faults or other critical errors by revealing what the process was doing at failure, including stack traces, variable states, and memory content.

NEW QUESTION # 65
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