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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	• 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	• 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 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.

NVIDIA AI Operations Sample Questions (Q17-Q22):

NEW QUESTION # 17
You are tasked with integrating BCM's monitoring data with an existing enterprise monitoring system (e.g., Splunk, ELK stack). What is the MOST efficient way to export BCM's metrics and logs for ingestion into these systems?

- A. Directly connect the enterprise monitoring system's agent to the BCM database.
- B. Configure BCM to export metrics in Prometheus format and use a Prometheus exporter to forward the data to the enterprise monitoring system.
- C. Use a syslog server to forward BCM's logs to the enterprise monitoring system.
- D. Develop a custom script to periodically query the BCM API and extract metrics and logs.
- E. Manually copy the BCM log files to the enterprise monitoring system's log directory.

Answer: B,C

Explanation:
Configuring BCM to export metrics in Prometheus format and using a Prometheus exporter is a standard and efficient way to integrate with monitoring systems that support Prometheus data. Using syslog server for logs ensures that the logs are forwarded and aggregated, thus integrating with existing enterprise monitoring system easily. Developing a custom script is more complex and less maintainable. Manually copying log files is not scalable. Connecting the monitoring system directly to the BCM database poses security risks and is not recommended.

NEW QUESTION # 18
An AI data center is planning to use NVMe over Fabrics (NVMe-oF) for its storage infrastructure. What are the primary advantages of NVMe-oF compared to traditional storage protocols like iSCSI or Fibre Channel?

- A. Reduced cost due to the use of commodity hardware.
- B. Lower latency and higher throughput for accessing NVMe SSDs over a network.
- C. Simplified storage management and configuration.
- D. Native support for object storage interfaces.

- E. Improved data security through built-in encryption.

Answer: B

Explanation:
NVMe-oF provides lower latency and higher throughput compared to iSCSI or Fibre Channel because it's designed to leverage the performance of NVMe SSDs over a network fabric. While NVMe-oF can potentially simplify management and reduce costs in some cases, its primary advantage is performance.

NEW QUESTION # 19
If a Magnum IO-enabled application experiences delays during the ETL phase, what troubleshooting step should be taken?

- A. Disable NVLink to prevent conflicts between GPUs during data transfer.
- B. Ensure that GPUDirect Storage is configured to allow direct data transfer from storage to GPU memory.
- C. Increase the swap space on the host system to handle larger datasets.
- D. Reduce the size of datasets being processed by splitting them into smaller chunks.

Answer: B

Explanation:
Comprehensive and Detailed Explanation From Exact Extract:
Ensuring thatGPUDirect Storageis properly configured allows the application to transfer data directly from storage into GPU memory, bypassing the CPU and reducing latency and overhead during the ETL (Extract, Transform, Load) phase. This direct path optimizes data movement, preventing delays and improving performance for Magnum IO-enabled applications.

NEW QUESTION # 20
After installing Kubernetes on your NVIDIA hosts using BCM, you notice that the GPU metrics are not being collected by your monitoring system (e.g., Prometheus). You've confirmed that the NVIDIA Device Plugin is running correctly and GPUs are accessible to containers.
What is the next MOST likely component to investigate and how would you address it?

- A. The kubelet's resource usage metrics endpoint is not properly configured. Edit the kubelet configuration file to enable GPU metrics collection.
- B. The Kubernetes API server is throttling metrics requests. Increase the API server's throttling limits for metrics requests.
- C. The cluster's logging driver is interfering with metrics collection. Switch to a different logging driver (e.g., journald) that doesn't conflict with metrics collection.
- D. The NVIDIA Data Center GPU Manager (DCGM) exporter is not deployed or configured correctly. Deploy and configure the DCGM exporter to expose GPU metrics in a Prometheus-compatible format.
- E. The Prometheus service discovery is not configured to scrape metrics from the NVIDIA Device Plugin endpoint. Update the Prometheus configuration to include the device plugin's metrics endpoint.

Answer: D

Explanation:
The NVIDIA Data Center GPU Manager (DCGM) exporter is specifically designed to collect and expose GPU metrics in a format that Prometheus can consume. If GPU metrics are not being collected, the DCGM exporter is the most likely culprit. The other options are less directly related to GPU metric collection. Option A pertains more to core Kubernetes metrics, option C relates to generic prometheus service discovery which isn't specialized to GPU data. Logging drivers and API throttling are less likely to directly block metrics collection.

NEW QUESTION # 21
A Slurm user is experiencing a frequent issue where a Slurm job is getting stuck in the "PENDING" state and unable to progress to the "RUNNING" state.
Which Slurm command can help the user identify the reason for the job's pending status?

- A. squeue -u <user_list>
- B. sinfo -R
- C. sacct -j <job[.step]>

- D. scontrol show job <jobid>

Answer: D

Explanation:
Comprehensive and Detailed Explanation From Exact Extract:
The Slurm commandscontrol show job <jobid>provides detailed information about a specific job, including its current status and, crucially, the reason why a job might be pending. This command shows job details such as resource requirements, dependencies, and any issues blocking the job from running.
* sinfo -Rdisplays information about nodes and their reasons for being in various states but does not provide job-specific reasons.
* sacct -jshows accounting data for jobs but typically does not explain pending causes.
* squeue -ulists jobs by user but does not detail the pending reasons.
Hence,scontrol show job <jobid>is the appropriate command to diagnose why a Slurm job remains in the pending state.

NEW QUESTION # 22
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