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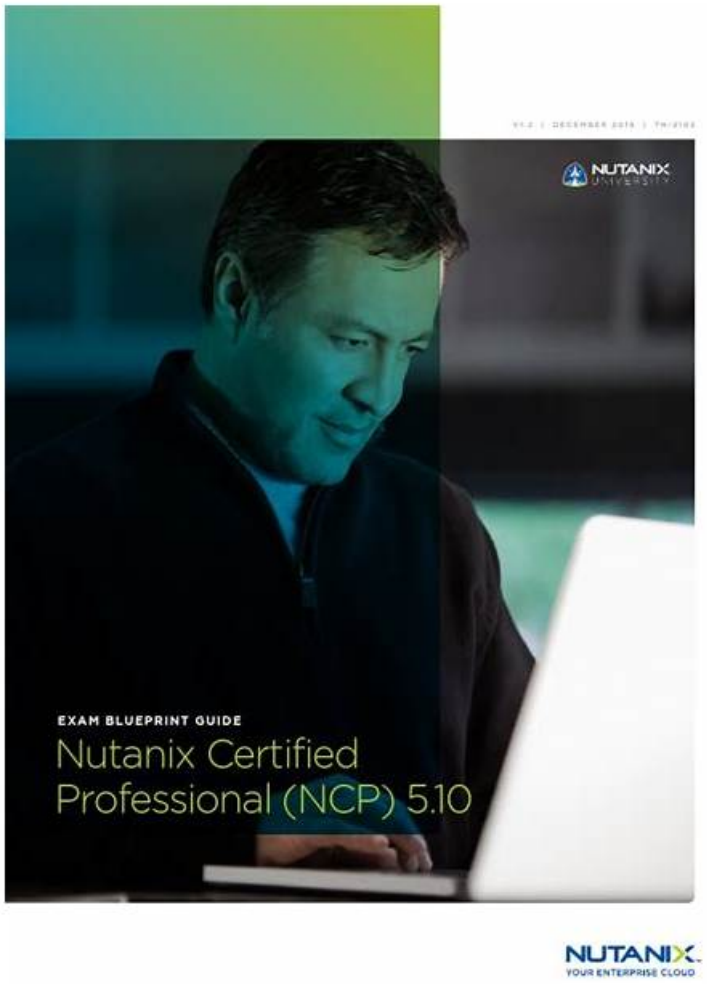

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NVIDIA NCP-AIO Exam Syllabus Topics:

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	• 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 3	• 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 4	• 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.

NVIDIA AI Operations Sample Questions (Q49-Q54):

NEW QUESTION # 49
A system administrator needs to scale a Kubernetes Job to 4 replicas.
What command should be used?

- A. kubectl scale job -r 4
- B. kubectl scale job --replicas=4
- C. kubectl stretch job --replicas=4
- D. kubectl autoscale deployment job --min=1 --max=10

Answer: B

Explanation:
Comprehensive and Detailed Explanation From Exact Extract:
The correct command to scale a Kubernetes Job to a specific number of replicas iskubectl scale job -- replicas=4. This explicitly sets the number of desired pod instances for the Job resource. The other commands are either invalid (stretch), apply to Deployments rather than Jobs (autoscale deployment), or use incorrect syntax (-r).

NEW QUESTION # 50
You want to monitor the GPU utilization of your BCM-managed cluster. Which tool would provide the most comprehensive real-time and historical GPU metrics?

- A. Prometheus with the NVIDIA DCGM exporter.
- B. 'top' command on each node.
- C. BCM's built-in monitoring dashboard.
- D. nvidia-smi' on each individual node.
- E. Kubernetes Dashboard.

Answer: A

Explanation:
Prometheus with the NVIDIA DCGM exporter is the best solution. 'nvidia-smr is node-specific and doesn't provide historical data. BCM and Kubernetes dashboards provide some metrics but not as granular. 'top' doesn't provide GPU metrics. DCGM Exporter exposes GPU metrics for Prometheus to scrape.

NEW QUESTION # 51
What is the primary benefit of using NVIDIA MIG in a multi-tenant environment?

- A. Decreased memory usage.
- B. Guaranteed isolation and resource allocation for each tenant.
- C. Improved CPU performance.
- D. Increased network bandwidth.
- E. Simplified container deployment.

Answer: B

Explanation:
MIG's primary benefit is to provide guaranteed isolation and resource allocation for each tenant in a multi-tenant environment. This ensures that each tenant has dedicated GPU resources and that their workloads do not interfere with each other.

NEW QUESTION # 52
You are deploying an AI application using Fleet Command. You want to ensure that the application automatically restarts if it crashes on an edge device. How can you achieve this?

- A. Disable the application's crash reporting to prevent crashes.
- B. Configure a systemd service or similar process manager on the edge device to automatically restart the application.
- C. Increase the memory allocated to the application to prevent crashes.
- D. Use Fleet Command's built-in health check and auto-restart features (if available and configured).
- E. Manually monitor the application and restart it if it crashes.

Answer: D

Explanation:
Fleet Command's built-in features are the most integrated and manageable way to handle application restarts. Manual monitoring (A) is not scalable. Systemd (B) requires manual configuration on each device. Disabling crash reporting (D) hides issues. Increasing memory (E) might help but doesn't guarantee restarts.

NEW QUESTION # 53
Consider an HPC application heavily reliant on CODA. You plan to leverage MIG to optimize GPU resource allocation within your cluster.
Which configuration approach would BEST ensure the HPC application benefits from high GPU compute capability while coexisting with other workloads?

- A. Disable MIG and allow the HPC application to utilize the entire GPU for maximum performance.
- B. Create MIG instances tailored to the HPC application's specific memory and compute needs, allocating the necessary resources without over-provisioning. Utilize the remaining resources for other workloads.
- C. Configure all MIG instances with equal memory and compute allocation to provide a fair distribution of resources.
- D. Create a single, large MIG instance dedicated solely to the HPC application, maximizing its compute capacity.
- E. Create multiple small MIG instances and distribute the HPC workload across them.

Answer: B

Explanation:
Tailoring MIG instances to the HPC application's specific requirements ensures efficient resource allocation and allows other workloads to utilize the remaining GPU capacity. D is not ideal for concurrent workloads. A and E don't account for specific workload requirements.

NEW QUESTION # 54
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