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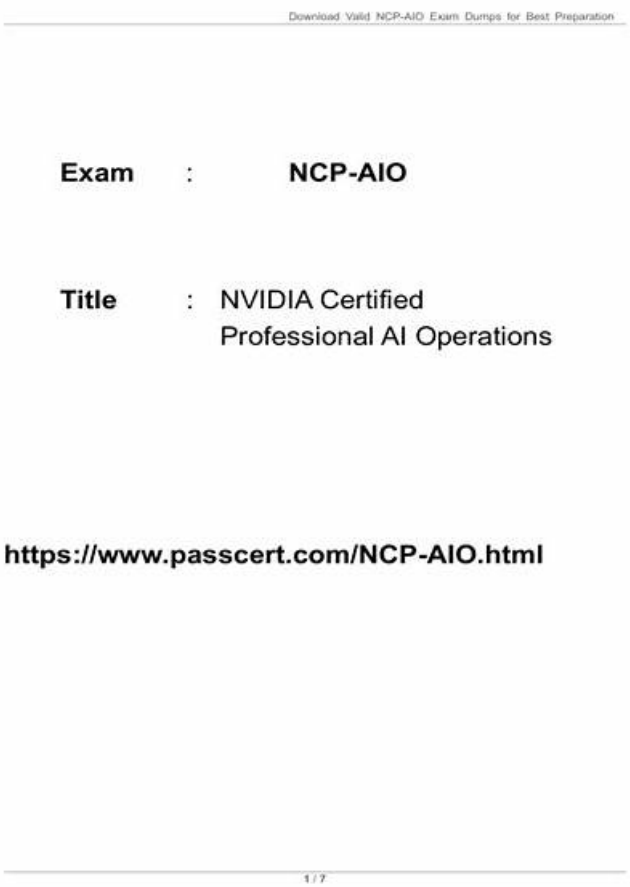

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NVIDIA NCP-AIO Exam Syllabus Topics:

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	• 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.

NVIDIA AI Operations Sample Questions (Q15-Q20):

NEW QUESTION # 15
A cloud engineer is looking to deploy a digital fingerprinting pipeline using NVIDIA Morpheus and the NVIDIA AI Enterprise Virtual Machine Image (VMI).
Where would the cloud engineer find the VMI?

- A. NVIDIA NGC
- B. Developer Forums
- C. Github and Dockerhub
- D. Azure, Google, Amazon Marketplaces

Answer: D

Explanation:
The NVIDIA AI Enterprise Virtual Machine Images (VMIs), including those needed for NVIDIA Morpheus deployments, are made available through the major cloud marketplaces such as Azure Marketplace, Google Cloud Marketplace, and Amazon Web Services Marketplace. This provides easy, standardized access and deployment options for enterprise users. While NGC hosts containers and models, the VMIs specifically are offered via cloud marketplaces.

NEW QUESTION # 16
You are managing a high availability (HA) cluster that hosts mission-critical applications. One of the nodes in the cluster has failed, but the application remains available to users.
What mechanism is responsible for ensuring that the workload continues to run without interruption?

- A. Manual intervention by the system administrator to restart services.
- B. Load balancing across all nodes in the cluster.
- C. Data replication between nodes to ensure data integrity.

- D. The failover mechanism that automatically transfers workloads to a standby node.

Answer: D

Explanation:
Comprehensive and Detailed Explanation From Exact Extract:
In an HA cluster, thefailover mechanismis responsible for detecting node failures and automatically transferring workloads to a standby or redundant node to maintain service availability. This process ensures mission-critical applications continue running without interruption. Load balancing helps distribute traffic but does not handle node failures. Manual intervention is not ideal for HA, and data replication ensures data integrity but does not itself manage workload continuity.

NEW QUESTION # 17
You are setting up a multi-tenant Run.ai cluster. Two teams, 'Team Alpha' and 'Team Beta', require access. You want to ensure 'Team Alpha' always has priority access to GPUs and cannot be starved of resources, even when 'Team Beta' submits a large number of jobs.
Which Run.ai configuration option BEST achieves this?

- A. Implement preemption policies to allow 'Team Alpha' jobs to preempt 'Team Beta' jobs.
- B. Use node affinity rules to dedicate specific nodes to 'Team Alpha'.
- C. Set equal resource quotas for both teams.
- D. Configure 'Team Alpha' with a higher priority within the fair-share scheduler.
- E. Disable the fair-share scheduler.

Answer: A,D

Explanation:
Configuring a higher priority within the fair-share scheduler ensures 'Team Alpha' gets preferential access to resources. Additionally, implementing preemption allows 'Team Alpha' to reclaim resources from 'Team Beta' if needed. While node affinity could provide dedicated resources, it doesn't dynamically address resource contention when 'Team Alpha' needs more than its dedicated nodes. Equal quotas and disabling the scheduler do not provide priority. Note that in new run.ai setups, ACM will be configured and you configure fair-share at ACM.

NEW QUESTION # 18
You are using BCM for configuring an active-passive high availability (HA) cluster for a firewall system. To ensure seamless failover, what is one best practice related to session synchronization between the active and passive nodes?

- A. Use heartbeat network for session synchronization between active and passive nodes.
- B. Set up manual synchronization procedures to transfer session data when needed.
- C. Configure both nodes with different zone names to avoid conflicts during failover.
- D. Ensure that both nodes use different firewall models for redundancy.

Answer: A

Explanation:
A best practice for active-passive HA clusters, such as for firewall systems managed via BCM, is to use a heartbeat network to synchronize session state data between active and passive nodes.
This real- time synchronization allows the passive node to take over seamlessly in case the active node fails, maintaining session continuity and minimizing downtime. Configuring different zone names or firewall models can cause incompatibility, and manual synchronization is prone to errors and delays.

NEW QUESTION # 19
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. 'top' command on each node.
- B. nvidia-smi' on each individual node.
- C. Kubernetes Dashboard.
- D. Prometheus with the NVIDIA DCGM exporter.

- E. BCM's built-in monitoring dashboard.

Answer: D

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 # 20
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