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NVIDIA Certified Professional AI Operations

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NVIDIA NCP-AIO Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">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 2	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • Troubleshooting and Optimization: NVThis 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	<ul style="list-style-type: none"> • 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 (Q47-Q52):

NEW QUESTION # 47

You are deploying a DOCA-based Intrusion Detection System (IDS) on a BlueField-3 DPU. The IDS needs to analyze network traffic in real-time to detect malicious activity. Which of the following DOCA services would be most suitable for implementing the core functionality of the IDS, and how would you configure them?

- **A. DOCA Flow:** Define flow rules to match specific network traffic patterns associated with malicious activity, such as suspicious ports or protocols. Trigger actions such as logging, dropping, or redirecting the traffic for further analysis.
- **B. DOCA Telemetry:** Collect network traffic statistics and flow information using DOCA Telemetry. Analyze the collected data to identify anomalies or suspicious behavior that may indicate malicious activity.
- **C. DOCA DPI:** Utilize DOCA DPI to perform deep packet inspection and identify malicious patterns or signatures within the network traffic. Configure DPI rules based on known threat intelligence feeds and custom signatures.
- **D. DOCA RegEx:** Implement regular expression matching to identify complex patterns within the network traffic, such as malware signatures or exploit attempts. Configure RegEx rules based on known threat patterns.
- **E. DOCA Comm Channel:** Communicate the detected intrusions with host server for the purpose of logging.

Answer: A,C,D

Explanation:

DOCA DPI, DOCA Flow, and DOCA RegEx are all valuable services for implementing an IDS. DOCA DPI performs deep packet inspection, DOCA Flow matches specific traffic patterns, and DOCA RegEx identifies complex patterns. Telemetry is used for monitoring, and comm channel is for communication. Configuring them with threat intelligent feeds is necessary.

NEW QUESTION # 48

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

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

Answer: A

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 # 49

An AI data center is dealing with exponentially growing unstructured data. Which of the following storage architectures is the most cost-effective and scalable solution for long-term data archival and retrieval?

- A. A high-performance parallel file system with NVMe SSDs.
- B. JBODs (Just a Bunch Of Disks) directly attached to each compute server.
- C. A traditional SAN (Storage Area Network) with spinning disks.
- D. A distributed database system with built-in replication.
- **E. A scale-out object storage system (e.g., Ceph, MinIO) with support for erasure coding.**

Answer: E

Explanation:

Scale-out object storage systems are designed for massive scalability and cost-effectiveness. They often support erasure coding, which provides data redundancy with lower overhead than traditional RAID. SANs are expensive and less scalable. Parallel file systems are optimized for performance, not cost. Distributed databases are not designed for unstructured data. JBODs present management challenges and lack inherent redundancy.

NEW QUESTION # 50

When installing Kubernetes using BCM on NVIDIA hosts, what is the purpose of the 'nvidia-container-toolkit' and how does it interact with the container runtime (e.g., Docker or containerd)?

- A. It handles network configuration for containers running on NVIDIA hosts. It configures the container network interface (CNI) to optimize network performance for GPU-accelerated workloads.
- B. It's a tool for monitoring GPU utilization within containers. It directly queries the NVIDIA driver for GPU metrics and exposes them via a REST API. It does not interact directly with the container runtime.
- **C. It's a set of libraries and utilities that allow the container runtime to isolate and expose GPU devices to containers. It intercepts container creation requests and configures the container to access the GPU.**
- D. It's a command-line tool for building and deploying GPU-enabled container images. It automates the process of adding the NVIDIA driver to container images.
- E. It's a Kubernetes operator that automatically installs and manages the NVIDIA driver on worker nodes. It replaces the need for manual driver installation.

Answer: C

Explanation:

The 'nvidia-container-toolkit' is the bridge between the container runtime (Docker, containerd) and the NVIDIA driver. It allows the container runtime to correctly configure containers to use the GPUs on the host. It achieves this by intercepting container creation requests and modifying the container's configuration to enable GPU access.

NEW QUESTION # 51

A system administrator needs to lower latency for an AI application by utilizing GPUDirect Storage. What two (2) bottlenecks are avoided with this approach? (Choose two.)

- A. CPU
- B. DPU
- C. NIC
- D. PCIe
- E. System Memory

Answer: A,E

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

GPUDirect Storage allows data to be transferred directly from storage to GPU memory, bypassing the CPU and system memory. This reduces latency and overhead by avoiding data movement through the CPU and main memory, accelerating data feeding to GPUs for AI workloads. PCIe and NIC are still involved in the data path, and the DPU may participate depending on architecture but are not the primary bottlenecks avoided by GPUDirect Storage.

NEW QUESTION # 52

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