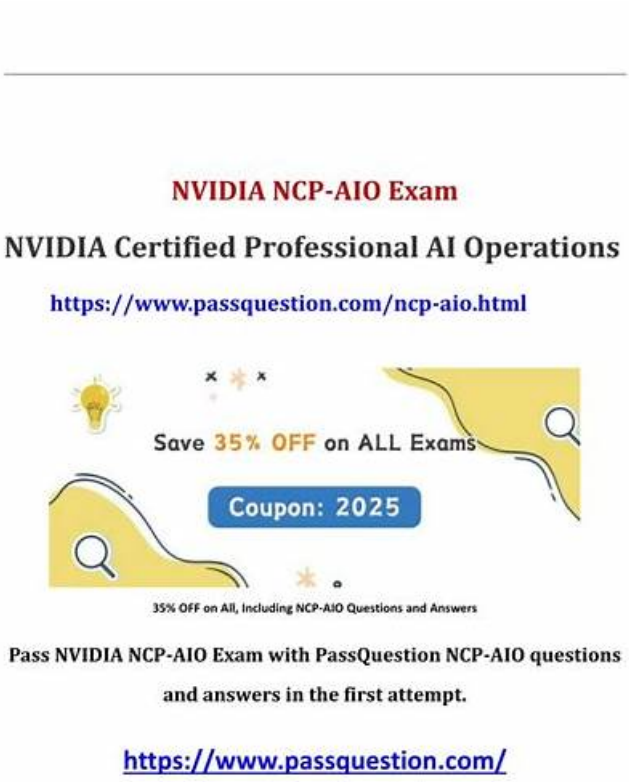
NVIDIA NCP-AIO Accurate Questions and Answers



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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.

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NVIDIA AI Operations Sample Questions (Q55-Q60):

NEW QUESTION # 55
You're troubleshooting a performance issue in a distributed training job running on your Slurm cluster. You suspect network bottlenecks are contributing to the problem. Which Slurm command and option(s) would be MOST helpful in diagnosing network performance issues within the job's allocated nodes?

- A. sstat -j
- B. srun -mpi=pmi2 iperf3 -s
- C. scontrol show job
- D. squeue -l
- E. sdiag

Answer: B

Explanation:
The 'srun -mpi=pmi2 iperf3 -S command, when executed within a Slurm job allocation, will launch an iperf3 server on each node allocated to the job, enabling you to measure network bandwidth between the nodes. This helps identify network bottlenecks.

NEW QUESTION # 56
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 Comm Channel: Communicate the detected intrusions with host server for the purpose of logging.
- 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 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.
- D. 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.
- E. 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.

Answer: C,D,E

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 # 57
A distributed BCM pipeline running on multiple nodes exhibits significant performance degradation when scaling to a larger number of nodes. Network bandwidth and storage I/O are not saturated. What's the likely cause?

- A. Inefficient data partitioning across the nodes, leading to uneven workload distribution.
- B. Excessive communication overhead between nodes due to frequent data transfers or synchronization.
- C. Incorrect configuration of the distributed BCM framework, causing suboptimal task scheduling.
- D. Insufficient CPU cores or memory on individual nodes, limiting processing capacity.
- E. All of the above.

Answer: E

Explanation:
In distributed systems, workload imbalance, communication overhead, resource limitations, and incorrect framework configuration all contribute to scaling issues.

NEW QUESTION # 58
You are encountering issues with a DOCA application failing to initialize on a BlueField-3 DPU. The error logs indicate a problem with allocating memory. Which of the following steps would be most effective in diagnosing the root cause?

- A. Disable SELinux on the DPU to eliminate potential permission issues affecting memory allocation.
- B. Reinstall the DOCA SDK on the DPU to ensure that all memory management libraries are correctly installed.
- C. Check the DPU's memory usage using tools like 'free -m' or 'top' to identify potential memory exhaustion.
- D. Examine the DOCA application code for potential memory leaks or incorrect memory allocation sizes.
- E. Verify that the DOCA application is requesting memory from the appropriate memory domain (e.g., DOCA MD) and that sufficient memory is available in that domain.

Answer: C,D,E

Explanation:
Memory allocation issues can stem from various causes, including memory exhaustion on the DPU, memory leaks in the application code, or insufficient memory within the configured memory domain. Therefore, checking memory usage, examining the code, and verifying memory domain configurations are crucial steps in diagnosing the problem.

NEW QUESTION # 59
You are building a system for A1-powered autonomous vehicles using Fleet Command. These vehicles require real-time inference

and are often in areas with limited or intermittent network connectivity. How would you configure Fleet Command and your edge deployments to maximize system reliability and minimize latency?

- A. Deploy the AI models directly onto the vehicles, configure local caching of inference results, and implement asynchronous synchronization with Fleet Command when network connectivity is available.
- B. Force devices to wait for connectivity to Fleet Command before performing any task
- C. Rely on the vehicle's onboard computer to handle all processing and ignore Fleet Command during periods of network outage.
- D. Increase the network bandwidth to the vehicles to ensure continuous connectivity.
- E. Configure Fleet Command to continuously stream all sensor data from the vehicles to a central server for processing.

Answer: A

Explanation:
Deploying models locally ensures low latency and resilience to network outages. Local caching allows continued operation during disconnections, with asynchronous synchronization when connectivity returns. Streaming all data (A) is impractical due to bandwidth limitations. Ignoring Fleet Command (C) limits manageability. Increasing bandwidth (D) is not always possible. Forcing to wait (E) removes real-time inference from a critical system

NEW QUESTION # 60
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