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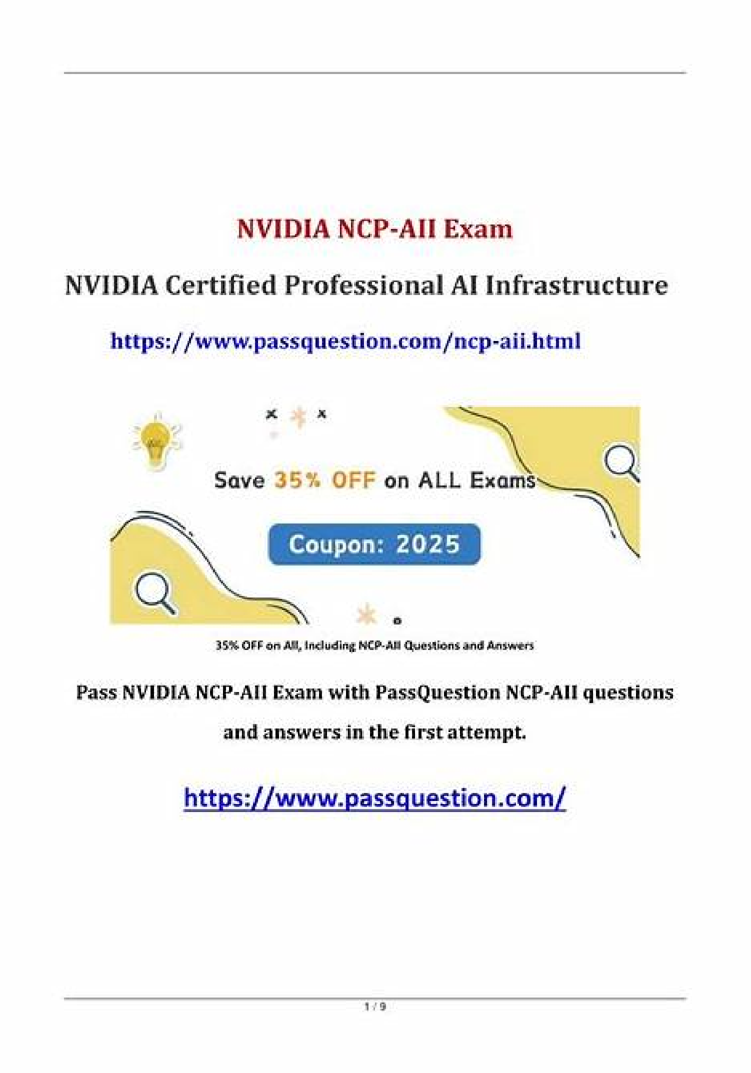

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NVIDIA AI Infrastructure Sample Questions (Q76-Q81):

NEW QUESTION # 76
You are deploying a cloud-native AI inference service using Kubernetes and NVIDIA GPUs. You need to ensure that GPU resources are efficiently allocated and monitored. Which of the following approaches is MOST effective for achieving this within the Kubernetes environment?

- A. Relying solely on Kubernetes' default CPU and memory resource requests and limits, assuming GPU usage will be implicitly managed.
- B. Overcommitting GPU resources and relying on the Kubernetes scheduler to handle potential out-of-memory (OOM) errors.
- C. Using the NVIDIA Device Plugin for Kubernetes to advertise GPU resources and utilizing resource requests and limits to schedule pods on nodes with available GPUs.
- D. Manually assigning specific GPU devices to pods using hostPath volumes and environment variables.
- E. Deploying a dedicated monitoring agent on each node to track GPU utilization and manually adjusting pod resource requests based on these metrics.

Answer: C

Explanation:
The NVIDIA Device Plugin for Kubernetes is specifically designed to advertise GPU resources to the Kubernetes scheduler, enabling efficient allocation and utilization. Resource requests and limits ensure pods are scheduled on nodes with sufficient GPU capacity, preventing resource contention and 00M errors. Options A, C, D, and E are either ineffective, manual, or potentially lead to instability.

NEW QUESTION # 77
You are managing a cluster of servers running Docker and NVIDIA GPUs. You want to monitor the GPU utilization of all Docker containers running on the cluster in real-time. Which tools or techniques could you use to achieve this?

- A. Use 'docker statS command on each host and look for the GPIJ utilization metrics.
- B. Implement a custom script that uses the NVIDIA Management Library (NVML) to query GPU utilization from each container.
- C. Use 'nvidia-smi' on each host and parse the output to extract GPIJ utilization for each container.
- D. Integrate the DCGM exporter with Prometheus and Grafana to visualize GPU metrics from all nodes in the cluster.
- E. Utilize NVIDIA's NGC cloud monitoring services to automatically collect and visualize GPU metrics from all nodes.

Answer: B,D

Explanation:
DCGM exporter integrated with Prometheus and Grafana is a robust solution for real-time monitoring of GPU metrics across a cluster (B). DCGM provides detailed GPU metrics, and Prometheus/Grafana offers excellent visualization capabilities. NVML (D) is a low-level API that allows you to directly query GPU information, providing flexibility for custom monitoring solutions. While 'nvidia-smi' (A) can be used, it's not ideal for cluster-wide monitoring. 'docker stats' (C) does not provide GPU utilization metrics directly. NGC (E) offers a container registry, but not built-in cluster-wide GPU monitoring.

NEW QUESTION # 78
You are managing an A1 infrastructure based on NVIDIA Spectrum-X switches. A new application requires strict Quality of Service (QOS) guarantees for its traffic. Specifically, you need to ensure that this application's traffic receives preferential treatment and minimal latency.
What combination of Spectrum-X features and configurations would be MOST effective in achieving this?

- A. Increase the MTIJ size on all interfaces to reduce packet fragmentation and overall latency.
- B. Configure DiffServ Code Point (DSCP) marking on the application's traffic, map these DSCP values to specific traffic classes within the Spectrum-X switch, and configure Weighted Fair Queueing (WFQ) or Strict Priority Queueing on the egress ports.

- C. Use VLAN tagging to isolate the application's traffic into a separate virtual network.
- D. Enable broadcast storm protection.
- E. Disable Adaptive Routing (AR) to ensure that traffic always takes the shortest path.

Answer: B

Explanation:
DSCP marking, traffic class mapping, and WFQ/Strict Priority Queueing are fundamental QOS mechanisms. DSCP marking allows you to classify traffic based on application requirements. Traffic classes within the switch provide different levels of service. WFQ and Strict Priority Queueing ensure that high-priority traffic receives preferential treatment on egress ports. The other options are less relevant to QOS guarantees for a specific application.

NEW QUESTION # 79
A data scientist reports slow data loading times when training a large language model. The data is stored in a Ceph cluster. You suspect the client-side caching is not properly configured. Which Ceph configuration parameter(s) should you investigate and potentially adjust to improve data loading performance? Select all that apply.

- A. client cache size
- B. client quota
- C. mds cache size
- D. fuse_client_max_background

Answer: A,D

Explanation:
Client-side caching in Ceph is primarily controlled by 'client cache size' which determines the amount of memory the Ceph client uses for caching data. 'mds cache size' controls the metadata server cache size, impacting metadata operations. controls the maximum number of background requests a FUSE client can make, influencing concurrency. affects the number of threads used by the OSDs, not the client-side caching, and 'client quota' limits storage usage, not caching.

NEW QUESTION # 80
You have installed the NVIDIA Container Toolkit and are attempting to run a container with GPU support. However, the 'docker run' command fails with an error indicating that the NVIDIA runtime is not found. You have already verified that the NVIDIA Container Toolkit is installed, and the Docker daemon has been restarted. What is the most likely cause of this error?

- A. The '/etc/docker/daemon.json' file is missing or has incorrect configuration settings related to the NVIDIA runtime.
- B. The system doesn't have a GPU.
- C. The container image is corrupted and needs to be rebuilt.
- D. The 'nvidia-container-runtime' package is not installed.
- E. The NVIDIA driver version is incompatible with the CUDA version specified in the container image.

Answer: A

Explanation:
The most likely cause is an issue with the S/etc/docker/daemon.json' file (A). This file configures Docker's runtime settings, including specifying the NVIDIA runtime. If the file is missing or has incorrect entries, Docker will not be able to find the NVIDIA runtime. While driver incompatibility (B) can cause issues, it typically manifests as runtime errors within the container, not a failure to find the runtime itself. 'nvidia- container-runtime' might be a required package depending on the installation method. A missing GPU is unlikely since the Toolkit would likely fail to install, although this is also an error that can prevent the NVIDIA runtime from being started.

NEW QUESTION # 81
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