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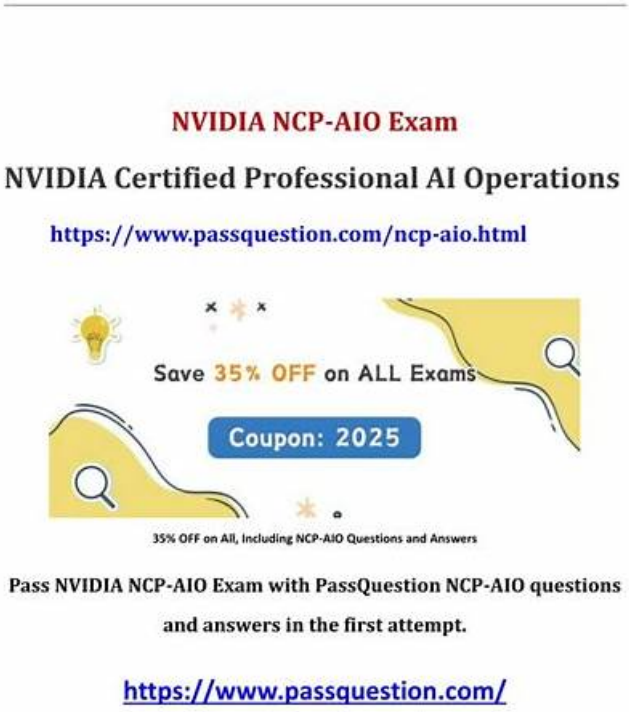

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NVIDIA NCP-AIO Exam Syllabus Topics:

Topic	Details
Topic 1	• 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 2	• 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	• 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 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.

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NVIDIA AI Operations Sample Questions (Q39-Q44):

NEW QUESTION # 39
You are deploying a cloud VMI container with Kubernetes. Your application requires a specific NVIDIA driver version. How do you ensure the correct driver version is used within the container, especially when the host node might have a different driver version?

- A. The NVIDIA driver version used on the host node is automatically inherited by the container; no specific configuration is needed.
- B. Utilize the NVIDIA Device Plugin for Kubernetes and configure it to inject the correct driver libraries into the container during runtime.
- C. Specify the desired driver version in the Kubernetes Deployment manifest using the 'nvidia.com/gpu.driver.version' resource limit.
- D. Bake the required NVIDIA driver version directly into the container image during the Docker build process.
- E. Configure the Kubernetes node's operating system to always use the desired NVIDIA driver version globally.

Answer: B,D

Explanation:
Using the NVIDIA Device Plugin allows for dynamic injection of driver libraries. Baking the driver into the container also works, but it results in a larger image and less flexibility. Option A is not a valid resource limit. Overriding the host OS driver is not practical for multi-tenant environments. Relying on host inheritance is risky as driver versions can vary.

NEW QUESTION # 40
Explanation:
You are running a Docker container that utilizes NVIDIA GPUs for deep learning inference. The application inside the container fails

to detect the GPUs. You've verified that NVIDIA drivers are installed on the host. What is the MOST likely cause and how do you fix it?

- A. The CUDA version in the container does not match the driver version on the host. Ensure the container uses a CUDA version compatible with the host driver.
- B. The '"gpus all' flag was not used when running the container. Re-run the container with 'docker run -gpus all ...w.
- C. The host's firewall is blocking communication between the container and the NVIDIA drivers. Disable the firewall or create an exception for the container network.
- D. The Docker daemon is not configured to use the NVIDIA runtime. Modify the '/etc/docker/daemon.json' file to include "'default-runtime": "nvidia'" and restart the Docker daemon.
- E. The NVIDIA Container Toolkit is not installed or configured correctly on the host machine. Install and configure the toolkit following NVIDIA's official documentation.

Answer: B,E

Explanation:
You are running a Docker container that utilizes NVIDIA GPUs for deep learning inference. The application inside the container fails to detect the GPUs. You've verified that NVIDIA drivers are installed on the host. What is the MOST likely cause and how do you fix it?

NEW QUESTION # 41
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. Set equal resource quotas for both teams.
- B. Disable the fair-share scheduler.
- C. Implement preemption policies to allow 'Team Alpha' jobs to preempt 'Team Beta' jobs.
- D. Configure 'Team Alpha' with a higher priority within the fair-share scheduler.
- E. Use node affinity rules to dedicate specific nodes to 'Team Alpha'.

Answer: C,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 # 42
Your company wants to setup a system to do rolling updates on NVIDIA drivers of the nodes running Kubernetes. The updates must take place with as little as downtime as possible, and not interrupt the workloads running on non-updated nodes. Which approach would be preferred?

- A. Run 'apt update with highest priority during times of least demand.
- B. Using DaemonSet and nodeAffinity/tolerations to ensure drivers can be rolled out with no disruption on all nodes. cordon nodes, drain, update, uncordon.
- C. Shutting down the Kubernetes Cluster to avoid downtime and update the drivers
- D. Using Ansible playbooks and running the updates in parallel across all nodes.
- E. Manual update node by node.

Answer: B

Explanation:
Manual update node by node is going to be time consuming and error prone. Using Ansible playbooks is an option, however, DaemonSets are designed for this use case. Using DaemonSets coupled with nodeAffinity ensures that it has to roll out drivers on all the nodes with no downtime. Shuttign down the Kubernetes Cluster is not a realistic option and simply running 'apt update' will not

allow any updates to take place with highest priority.

NEW QUESTION # 43
An AI data center is planning to use NVMe over Fabrics (NVMe-oF) for its storage infrastructure. What are the primary advantages of NVMe-oF compared to traditional storage protocols like iSCSI or Fibre Channel?

- A. Simplified storage management and configuration.
- B. Lower latency and higher throughput for accessing NVMe SSDs over a network.
- C. Native support for object storage interfaces.
- D. Reduced cost due to the use of commodity hardware.
- E. Improved data security through built-in encryption.

Answer: B

Explanation:
NVMe-oF provides lower latency and higher throughput compared to iSCSI or Fibre Channel because it's designed to leverage the performance of NVMe SSDs over a network fabric. While NVMe-oF can potentially simplify management and reduce costs in some cases, its primary advantage is performance.

NEW QUESTION # 44
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