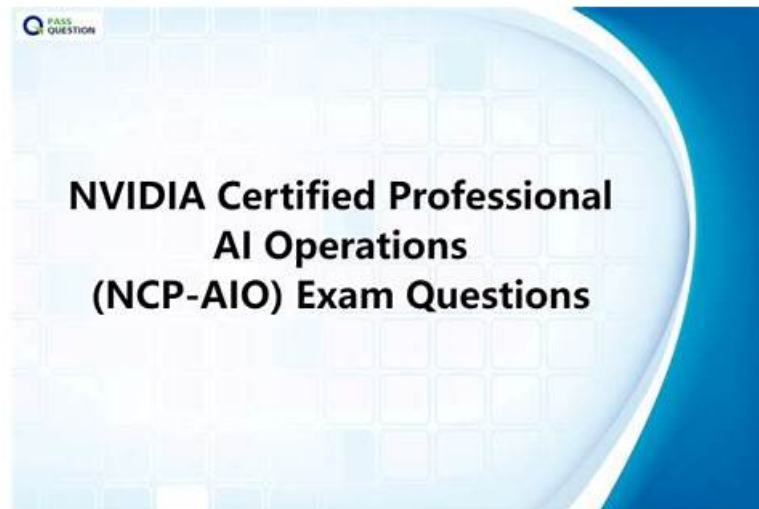


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NVIDIA NCP-AIO Exam Syllabus Topics:

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	• 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	• 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 4	• 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.
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NVIDIA AI Operations Sample Questions (Q33-Q38):

NEW QUESTION # 33

A data scientist submits a Run.ai job requesting 4 GPUs. However, due to resource constraints, only 2 GPUs are immediately available. You want the job to automatically start running as soon as the remaining 2 GPUs become available, without manual intervention. How do you configure Run.ai to achieve this?

- A. Set a higher quota for the team.
- B. Use Run.ai's 'suspend' and 'resume' commands manually.
- C. Configure a lower priority for the job.
- **D. Enable gang scheduling for the job.**
- E. Set the job's 'restartPolicy' to 'Always'.

Answer: D

Explanation:

Gang scheduling ensures that all requested resources (in this case, all 4 GPUs) are allocated before the job starts. The job will remain in a pending state until all resources are available, and then it will automatically start. 'restartPolicy' only applies if a job fails after it has already started. Lower priority would make it less likely to start. Manually suspending and resuming requires intervention. A quota impacts how much you can submit overall, not the allocation of the complete resources requested by a single job.

NEW QUESTION # 34

You are deploying a DOCA application on a BlueField-3 DPU. Which of the following components are essential for enabling RDMA communication between the DPU and the host server?

- A. Appropriate firewall rules configured on both the host and the DPU.
- B. Kernel bypass techniques like DPDK only on the DPU.
- **C. Mellanox OFED (MLNX_OFED) driver on both the DPU and the host.**
- D. DOCA SDK installed on the DPU only.
- **E. Correctly configured PCI passthrough or SR-IOV on the host for the DPU's RDMA interfaces.**

Answer: C,E

Explanation:

RDMA communication requires the correct drivers (MLNX_OFED) on both ends and proper PCI passthrough or SR-IOV configuration on the host to expose the DPU's RDMA capabilities. DOCA SDK helps build the applications, firewall rules are orthogonal and DPDK is one of the option. Kernel bypass on both host and dpu is needed.

NEW QUESTION # 35

You are setting up a Kubernetes cluster on NVIDIA DGX systems using BCM, and you need to initialize the control-plane nodes.

What is the most important step to take before initializing these nodes?

- A. Configure each control-plane node with its own external IP address.
- B. Set up a load balancer before initializing any control-plane node.
- C. Ensure that Docker is installed and running on all control-plane nodes.
- **D. Disable swap on all control-plane nodes before initializing them.**

Answer: D

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Disabling swap on all control-plane nodes is a critical prerequisite before initializing Kubernetes control-plane nodes. Kubernetes requires swap to be disabled to maintain performance and stability. Failure to disable swap can cause kubeadm initialization to fail or lead to unpredictable cluster behavior.

NEW QUESTION # 36

You suspect that 'nvsm' is not properly utilizing all available resources on your system. What metrics can you monitor to assess the resource consumption of 'nvsm' and identify potential bottlenecks?

- A. GPU utilization and memory usage.
- B. System uptime and kernel version.
- **C. CPU usage, memory usage, and network I/O.**
- D. Power consumption of the NVSwitch.
- E. Disk I/O and filesystem latency.

Answer: C

Explanation:

To assess the resource utilization of 'nvsm', you should monitor its CPU usage, memory usage, and network I/O. These metrics will provide insights into potential bottlenecks and areas where the service might be constrained.

NEW QUESTION # 37

You are designing a data center network to support distributed deep learning training across multiple servers. The training job uses NCCL (NVIDIA Collective Communications Library) for inter-GPU communication. Which of the following network configurations will maximize the performance of NCCL?

- A. A traditional three-tier network architecture with oversubscribed links at each layer.
- B. A VLAN-based network with no QOS (Quality of Service) configured.
- **C. A Clos network topology with non-blocking links between all servers, utilizing RoCEv2 or InfiniBand.**
- D. A single network switch connecting all servers, with each server connected via a single IOGbE link.
- E. A network using only TCP/IP without RDMA support.

Answer: C

Explanation:

NCCL benefits greatly from low-latency, high-bandwidth communication. A Clos network with non-blocking links, RoCEv2, or InfiniBand ensures that GPUs can communicate efficiently without bottlenecks. A single switch with limited bandwidth, a three-tier network with oversubscription, or lack of RDMA will significantly hinder NCCL performance. VLANs without QOS do not guarantee low latency.

NEW QUESTION # 38

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For starters and professionals NVIDIA AI Operations play a significant role to verify skills, experience, and knowledge in a specific technology. Enrollment in the NVIDIA AI Operations NCP-AIO is open to everyone. Upon completion of NVIDIA AI Operations NCP-AIO Exam Questions' particular criteria. Participants in the NCP-AIO Questions come from all over the world and receive the credentials for the NVIDIA AI Operations NCP-AIO Questions. They can quickly advance their careers in the fiercely competitive market and benefit from certification after earning the NCP-AIO Questions badge. However, passing the NVIDIA AI

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