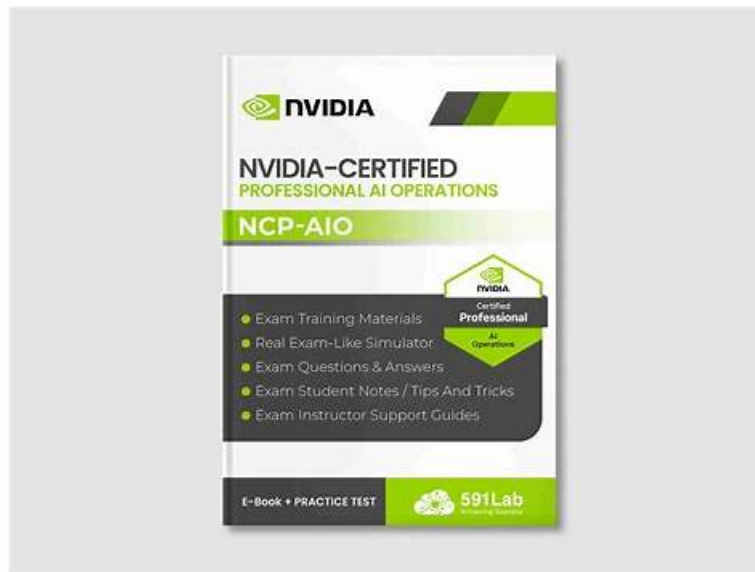# Pass Guaranteed Newest NCP-AIO - NVIDIA AI Operations Valid Test Prep

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NVIDIA AI Operations Sample Questions (Q39-Q44):

NEW QUESTION # 39
You are managing a high availability (HA) cluster that hosts mission-critical applications. One of the nodes in the cluster has failed, but the application remains available to users.
What mechanism is responsible for ensuring that the workload continues to run without interruption?

- A. Load balancing across all nodes in the cluster.
- B. The failover mechanism that automatically transfers workloads to a standby node.
- C. Data replication between nodes to ensure data integrity.
- D. Manual intervention by the system administrator to restart services.

Answer: B

Explanation:
Comprehensive and Detailed Explanation From Exact Extract:
In an HA cluster, the failover mechanism is responsible for detecting node failures and automatically transferring workloads to a standby or redundant node to maintain service availability. This process ensures mission-critical applications continue running without interruption. Load balancing helps distribute traffic but does not handle node failures. Manual intervention is not ideal for HA, and data replication ensures data integrity but does not itself manage workload continuity.

NEW QUESTION # 40
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. Configure a lower priority for the job.
- B. Enable gang scheduling for the job.
- C. Set a higher quota for the team.
- D. Set the job's 'restartPolicy' to 'Always'.
- E. Use Run.ai's 'suspend' and 'resume' commands manually.

Answer: B

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 # 41
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. Correctly configured PCl passthrough or SR-IOV on the host for the DPU's RDMA interfaces.
- C. DOCA SDK installed on the DPU only.
- D. Mellanox OFED (MLNX_OFED) driver on both the DPU and the host.
- E. Kernel bypass techniques like DPDK only on the DPU.

Answer: B,D

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 # 42
You're troubleshooting a pod that's failing to schedule on a node in your BCM-managed cluster, despite the node having available GPU resources. What's the most likely cause, and how would you diagnose it?

- A. The pod is missing the necessary NVIDIA device plugin. Check the pod's YAML for 'nvidia.com/gpu' resource requests.
- B. The Kubernetes scheduler is misconfigured. Restart the 'kube-scheduler* service on the master node.
- C. The pod's resource requests exceed the node's capacity. Use *kubectl describe pod to view resource requests and limits.
- D. The node is cordoned, preventing new pods from being scheduled. Use 'kubectl get nodes' to check node status.
- E. The node is tainted, preventing pods from being scheduled. Use 'kubectl describe node to check for taints.

Answer: A,C,D,E

Explanation:
Taints prevent scheduling unless tolerated. Exceeding capacity prevents scheduling. The device plugin is required for GPU access. Cordoned nodes don't accept new pods. Restarting kube-scheduler is a less likely first step.

You are tuning the storage performance of a Kubernetes cluster that uses Longhorn as the storage backend. You've noticed inconsistent read latencies. What Longhorn specific configurations could you adjust to potentially improve the consistency and reduce latency for read operations?

- A. Reduce the size of the Longhorn volumes to decrease the amount of data that needs to be read.
- B. Disable Longhorn's built-in monitoring to reduce overhead.
- C. Enable 'data locality' to ensure that replicas are preferably placed on the same node as the pod accessing the volume, reducing network latency.
- D. Adjust the 'replica-auto-balance' setting to redistribute replicas more evenly across nodes.
- E. Increase the number of replicas for each Longhorn volume to improve data redundancy and read parallelism.

Answer: C,D,E

Explanation:
More replicas increase read parallelism. 'replica-auto-balance' ensures replicas are well-distributed. 'data locality' minimizes network hops for reads. It is not beneficial to reduce volume size, as that is required. Disabling built-in monitoring is also a bad idea.

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