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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	• 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 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	• 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.

NVIDIA AI Operations Sample Questions (Q51-Q56):

NEW QUESTION # 51
Your Kubernetes cluster is running a mixture of AI training and inference workloads. You want to ensure that inference services have higher priority over training jobs during peak resource usage times.
How would you configure Kubernetes to prioritize inference workloads?

- A. Use Horizontal Pod Autoscaling (HPA) based on memory usage to scale up inference services during peak times.
- B. Set up a separate namespace for inference services and limit resource usage in other namespaces.
- C. Increase the number of replicas for inference services so they always have more resources than training jobs.
- D. Implement ResourceQuotas and PriorityClasses to assign higher priority and resource guarantees to inference workloads over training jobs.

Answer: D

Explanation:
Comprehensive and Detailed Explanation From Exact Extract:
To prioritize inference workloads over training jobs in Kubernetes, administrators should configurePriorityClassesandResourceQuotas. PriorityClasses allow assigning different priority levels to pods, ensuring that during resource contention, higher-priority pods (inference services) receive resources first.
ResourceQuotas limit the resource consumption per namespace or user, controlling overall usage and reserving capacity for critical workloads. This setup effectively manages resource allocation and guarantees performance for inference jobs during peak times.

* Increasing replicas or namespaces alone does not guarantee priority during contention.
* HPA scales based on metrics but does not manage priority or resource guarantees directly.

NEW QUESTION # 52

A user is attempting to use the 'srun' command to launch an interactive job on a node with a specific GPU UUID, but they are encountering errors. The user is providing the following command, but it is not working:

srun --gres=gpu:uuid:GPU-UUID-HERE--pty bash

What could be a potential issue why the command is not working?

- A. The version of Slurm installed is too old to support specifying GPU UUIDs with 'srun'.
- B. The specified GPU UUID does not exist or is not correctly configured on the target node.
- C. All of the above
- D. The node is currently in a DOWN or DRAINED state.
- E. The user does not have the necessary permissions to access the specified GPU.

Answer: C

Explanation:
All given options are correct and must be checked, since the user is providing UUID of the GPU, and it may not work due to any of these reasons.

NEW QUESTION # 53

Which network topology is generally preferred for AI training workloads in a data center, emphasizing low latency and high bandwidth between GPU servers?

- A. Ethernet with link aggregation (LAG) only.
- B. Clos network (e.g., Fat-Tree) with RoCEv2 or InfiniBand.
- C. Token Ring.
- D. Spanning Tree Protocol (STP) based Ethernet.
- E. A single IOGbE switch connecting all nodes.

Answer: B

Explanation:
Clos networks, particularly Fat-Tree topologies utilizing RoCEv2 or InfiniBand, provide the necessary low latency and high bandwidth for efficient inter-GPU communication during distributed training. STP based Ethernet is unsuitable due to its blocking nature and potential for high latency. LAG helps but doesn't provide the full benefits of a Clos network.

NEW QUESTION # 54

You need to configure network settings for your Fleet Command deployment. You want to ensure that edge devices can only communicate with the Fleet Command server over a specific port and protocol for security reasons. Which of the following configurations is the MOST appropriate?

- A. Open all ports on the edge devices and the Fleet Command server to allow unrestricted communication.
- B. Configure a VPN for all communication, even local communication.
- C. Rely on the default network settings provided by the operating system.
- D. Disable all network access on the edge devices except for SSH.
- E. Configure a firewall on the edge devices and the Fleet Command server to allow communication only on the designated port and protocol (e.g., HTTPS on port 443),

Answer: E

Explanation:
A firewall provides the necessary security by restricting communication to only the required port and protocol. Opening all ports (A) is insecure. Disabling network access (C) prevents functionality. Relying on defaults (D) is insufficient. VPN is not needed for local communication and overcomplicated. (E)

NEW QUESTION # 55

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

Answer: E

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 # 56

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