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## NVIDIA NCP-AIO Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"><li>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.</li></ul>

Topic 2	<ul style="list-style-type: none"> <li>• <b>Workload Management:</b> 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.</li> </ul>
Topic 3	<ul style="list-style-type: none"> <li>• <b>Installation and Deployment:</b> 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.</li> </ul>
Topic 4	<ul style="list-style-type: none"> <li>• <b>Troubleshooting and Optimization:</b> 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.</li> </ul>

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### NVIDIA AI Operations Sample Questions (Q35-Q40):

#### NEW QUESTION # 35

Which of the following correctly identifies the key components of a Kubernetes cluster and their roles?

- A. The control plane consists of the kube-apiserver, etcd, kube-scheduler, and kube-controller-manager, while worker nodes run kubelet and kube-proxy.
- B. The control plane is responsible for running all application containers, while worker nodes manage network traffic through etcd.
- C. The control plane includes the kubelet and kube-proxy, and worker nodes are responsible for running etcd and the scheduler.
- D. Worker nodes manage the kube-apiserver and etcd, while the control plane handles all container runtimes.

**Answer: A**

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

In Kubernetes architecture, the control plane is composed of several core components including the kube-apiserver, etcd (the cluster's key-value store), kube-scheduler, and kube-controller-manager. These manage the overall cluster state, scheduling, and orchestration of workloads. The worker nodes are responsible for running the actual containers and include the kubelet (agent that communicates with the control plane) and kube-proxy (handles network routing for services). Other options incorrectly assign these components or roles.

#### NEW QUESTION # 36

Your Kubernetes cluster hosts several AI workloads with varying GPU requirements. Some workloads require high compute performance, while others are memory-bound. You want to optimize GPU resource allocation by bin-packing workloads with

complementary resource profiles onto the same nodes. How would you approach this?

- A. Use node affinity rules to schedule all workloads onto the same set of nodes, regardless of their resource profiles.
- B. Configure resource quotas to limit the overall GPU usage in the cluster.
- **C. Employ a custom Kubernetes scheduler that considers GPU compute and memory usage when placing pods.**
- D. Implement a vertical pod autoscaler (VPA) to dynamically adjust the GPU resource requests of pods based on their actual usage.
- E. Manually assign workloads to specific nodes based on their resource requirements.

**Answer: C**

Explanation:

The correct answer is B. A custom Kubernetes scheduler allows you to implement sophisticated bin-packing algorithms that consider both GPU compute and memory usage to optimize resource allocation. This enables you to pack workloads with complementary resource profiles onto the same nodes, maximizing GPU utilization. Option A ignores resource profiles. Option C is not scalable. Option D limits overall usage but doesn't optimize placement. Option E focuses on individual pod resource adjustment, not bin-packing.

### NEW QUESTION # 37

After successfully creating MIG instances on your NVIDIA A100 GPU, you observe that applications assigned to these instances are not fully utilizing the allocated resources. You suspect that CPU affinity is not properly configured. What steps should you take to ensure optimal CPU affinity for these MIG instances?

- A. Increase the priority of all processes running within the MIG instances using the `snice` command.
- B. Rely solely on the operating system's default scheduler to handle CPU affinity.
- C. Set CPU affinity to the same core for all MIG instances.
- D. Disable CPU affinity altogether to allow processes to migrate freely across all cores.
- **E. Manually assign CPU cores to each MIG instance using the 'taskset' command or similar tools, ensuring that each instance has exclusive access to its assigned cores. Also use `numactl`.**

**Answer: E**

Explanation:

CPU affinity binds processes to specific CPU cores, reducing context switching and improving performance. Manually assigning CPU cores to each MIG instance, ensuring exclusivity, is crucial for optimal resource utilization. `taskset` and `numactl` are commonly used tools for this purpose. Options A, C, D, and E would likely lead to performance degradation or resource contention.

### NEW QUESTION # 38

A user is running a large language model (LLM) training job on a multi-GPU server. The job utilizes PyTorch's 'DistributedDataParallel' (DDP). The training process seems to hang intermittently. How can you troubleshoot this issue using system management tools?

- A. Run `iostat` to observe disk I/O activity, as it might be causing delays.
- **B. Monitor network bandwidth utilization between GPUs using `ethtool`.**
- **C. Examine the system logs `C/var/log/syslog` or similar) for any error messages related to network or GPU communication.**
- **D. Use `nvidia-smi` to check GPU utilization and memory usage to identify potential imbalances across GPUs.**
- E. Use `perf` to profile the CPU usage of the PyTorch processes.

**Answer: B,C,D**

Explanation:

DDP relies on efficient inter-GPU communication. Network bottlenecks (A) can cause hangs. GPU utilization imbalances (B) can lead to some GPUs waiting for others. System logs (C) might contain error messages indicating communication failures. While CPU profiling (D) and disk I/O monitoring (E) might be useful in other scenarios, they are less likely to be the primary cause of hangs in DDP training.

### NEW QUESTION # 39

You've configured a complex NVLink topology with multiple NVSwitches. You need to simulate a link failure to test the resilience of your system and the failover capabilities of 'nvsml'. How could you MOST effectively simulate a link failure for testing purposes?

- A. Power off an NVSwitch.
- B. Use a network traffic shaping tool to severely limit bandwidth on a specific NVLink connection.
- C. Unload and reload the NVIDIA drivers.
- **D. Use 'nvsml' commands (if available) to administratively disable a specific NVLink port or link.**
- E. Physically disconnect an NVLink cable.

**Answer: D**

Explanation:

The ideal way to simulate a link failure is to use 'nvsml' commands (if they exist) to administratively disable a specific port or link. This is the least disruptive and most controlled method. Physically disconnecting cables or powering off switches is disruptive and can have unintended consequences. Bandwidth limiting is not the same as a link failure. Driver reloading can also have broader effects than intended.

## NEW QUESTION # 40

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