


NCP-AIO Exam Objectives Pdf - Formal NCP-AIO Test

NVIDIA NCP-AIO Exam

NVIDIA Certified Professional AI Operations

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NVIDIA NCP-AIO Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">• 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	<ul style="list-style-type: none">• 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	<ul style="list-style-type: none">• Troubleshooting and Optimization: NVThis 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	<ul style="list-style-type: none">• 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.

NVIDIA AI Operations Sample Questions (Q48-Q53):

NEW QUESTION # 48

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

Answer: B

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 # 49

You're deploying a DOCA-based firewall application on a BlueField-2 DPU. The application uses eBPF for packet filtering. What is the primary reason for using eBPF in this scenario?

- A. To improve the compatibility with legacy network devices.

- B. To enable dynamic updates to the firewall rules without requiring kernel module recompilation.
- C. To reduce CPU utilization on the host server by offloading packet filtering to the DPU.
- D. To automatically generate iptables rules on the host server.
- E. To simplify the firewall rule definition using a higher-level language.

Answer: B,C

Explanation:

eBPF allows offloading packet filtering to the DPU, thus reducing the load on the host CPU. It also allows dynamic updates to firewall rules without requiring kernel recompilation, which is a significant advantage in terms of flexibility and maintenance.

NEW QUESTION # 50

You are experiencing performance issues with a specific AI workload running on your Kubernetes cluster managed by BCM. BCM shows high GPU utilization for this workload. How can you use BCM to further investigate the cause of the performance bottleneck?

- A. Use BCM to adjust the clock speeds of the GPUs to maximize performance for this workload.
- B. Use BCM to restart the Docker container running the workload.
- C. Use BCM to profile the workload's GPU usage and identify specific kernels or operations that are consuming the most GPU time.
- D. Use BCM to migrate the workload to a different GPU node with more available resources.
- E. Use BCM to monitor the network bandwidth between the GPU nodes and the storage system.

Answer: C,E

Explanation:

BCM's integration with profiling tools allows you to analyze the workload's GPU usage and identify performance bottlenecks. You can also monitor the network bandwidth, as data transfer bottlenecks can significantly impact AI workload performance. While migrating the workload might help, understanding the bottleneck first is crucial. Adjusting clock speeds can be risky. Restarting the container is a general troubleshooting step but doesn't provide specific insights.

NEW QUESTION # 51

A Slurm user needs to display real-time information about the running processes and resource usage of a Slurm job. Which command should be used?

- A. `sstat -j <job(.step)>`
- B. `snmp -j <jobid>`
- C. `scontrol show job <jobid>`
- D. `sinfo -j <jobid>`

Answer: A

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

The Slurm command `sstat` is designed to provide real-time statistics about running jobs, including process-level details and resource usage such as CPU, memory, and GPU utilization. Using `sstat -j <jobid>` or `sstat -j <jobid>.step` allows monitoring of active job resource consumption.

* `snmp` is not a standard Slurm command.

* `scontrol show job` gives job configuration and status but not real-time resource usage.

* `sinfo` displays node and partition information, not job-specific resource stats.

Therefore, `sstat` is the correct command for real-time job process and resource monitoring.

NEW QUESTION # 52

You are configuring cloudbursting for your on-premises cluster using BCM, and you plan to extend the cluster into both AWS and Azure.

What is a key requirement for enabling cloudbursting across multiple cloud providers?

- A. You must configure separate credentials for each cloud provider in BCM to enable their use in the cluster extension

process.

- B. You need to set up a single set of credentials that works across both AWS and Azure for seamless integration.
- C. You only need to configure credentials for one cloud provider, as BCM will automatically replicate them across other providers.
- D. BCM automatically detects and configures credentials for all supported cloud providers without requiring admin input.

Answer: A

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

When configuring BCM for cloudbursting across multiple cloud providers such as AWS and Azure, it is necessary to configure separate credentials for each cloud provider within BCM. This allows BCM to authenticate and manage resources appropriately in each distinct cloud environment. BCM does not automatically replicate or detect credentials, nor can a single credential set typically work across providers.

NEW QUESTION # 53

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