

NCP-AIO Valid Study Guide & NCP-AIO Exam Training Material & NCP-AIO Free Download Demo

NCP study guide questions with complete solutions

Nutrition Care Process correct answer: Problem solving method for dietetics to use critically thinking and decision making to address nutrition related problems and provide safe, effective and high quality nutrition care

ADIME correct answer: Assessment

Diagnosis
Intervention
Monitoring
Evaluation

Standardized process correct answer: -Combines process of care and content of care
-(Evidence-based practice)
-Ability to clearly state patient goals and evaluate outcomes

NTR Assessment correct answer: collect timely and appropriate data

-Food/Ntr history
-Anthropometric Measurements (BMI)
-Biochemical Data, Med tests and Procedures (Lab data)
-Ntr-focused physical findings (physical appearance)
-Client History (personal history)

NTR Care Indicators measured correct answer: -Intake

-Lab Values
-Weights
-Physical activity
-Food diary

NTR Care criteria correct answer: DRI

Lab reference
BMI
Dietary guidelines
NTR prescription

NTR Diagnosis correct answer: -Intake

-Clinical
-Behavioral-Environmental
(PES)

PES correct answer: Problem or NTR Diagnosis Term (NTR status)

Etiology "related to"
Signs/Symptoms "how do you know"

Assessment correct answer: Data collected

Cluster individual data elements to identify nutrition diagnosis

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NVIDIA NCP-AIO Exam Syllabus Topics:

Topic	Details
Topic 1	• 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 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	• 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 4	• 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.

NVIDIA AI Operations Sample Questions (Q49-Q54):

NEW QUESTION # 49

You are trying to configure MIG (Multi-Instance GPU) on your Run.ai cluster. You have an NVIDIA A100 GPU and want to create two MIG instances, each with 20GB of memory. Assuming the A100 has 80GB of memory, what is the CORRECT MIG profile string you would use when submitting a job to request one of these MIG instances?

- A. 2g.20gb
- B. 1g.10gb
- **C. 2g.10gb**
- D. 1g.5gb
- E. 4g.20gb

Answer: C

Explanation:

The MIG profile string follows the format 'GPU instances>g.gb'. In this case, '2g.10gb' is the correct MIG profile. This is because the A100 GPU will be split into 2 instances with 10 GB memory each, not 20GB as asked in the question. Even if the A100 has 80GB of memory, MIG is not a 1-1 memory division ratio.

NEW QUESTION # 50

You are managing a Slurm cluster with multiple GPU nodes, each equipped with different types of GPUs.

Some jobs are being allocated GPUs that should be reserved for other purposes, such as display rendering. How would you ensure that only the intended GPUs are allocated to jobs?

- A. Verify that the GPUs are correctly listed in both `gres.conf` and `slurm.conf`, and ensure that unconfigured GPUs are excluded.
- B. Use `nvidia-smi` to manually assign GPUs to each job before submission.
- C. Reinstall the NVIDIA drivers to ensure proper GPU detection by Slurm.
- D. Increase the number of GPUs requested in the job script to avoid using unconfigured GPUs.

Answer: A

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

In Slurm GPU resource management, the `gres.conf` file defines the available GPUs (generic resources) per node, while `slurm.conf` configures the cluster-wide GPU scheduling policies. To prevent jobs from using GPUs reserved for other purposes (e.g., display rendering GPUs), administrators must ensure that only the GPUs intended for compute workloads are listed in these configuration files.

* Properly configuring `gres.conf` allows Slurm to recognize and expose only those GPUs meant for jobs.

* `slurm.conf` must be aligned to exclude or restrict unconfigured GPUs.

* Manual GPU assignment using `nvidia-smi` is not scalable or integrated with Slurm scheduling.

* Reinstalling drivers or increasing GPU requests does not solve resource exclusion.

Thus, the correct approach is to verify and configure GPU listings accurately in `gres.conf` and `slurm.conf` to restrict job allocations to intended GPUs.

NEW QUESTION # 51

You are troubleshooting a Run.ai job that is failing with a CUDA out-of-memory error, despite requesting a seemingly sufficient amount of GPU memory. What is the MOST likely cause of this issue?

- A. The requested CPU count is too low.
- B. The requested GPU count is too low.
- C. The CUDA version on the node is incompatible with the application.
- D. The job's Docker image is corrupted.
- E. The job is using a larger batch size than the GPU memory can accommodate.

Answer: E

Explanation:

The most likely cause of a CUDA out-of-memory error, even with a seemingly sufficient GPU memory request, is that the application is trying to allocate more memory than is available on the GPU, often due to an excessively large batch size or model size. While CUDA version incompatibility can cause issues, it usually results in a different type of error. Incorrect GPU or CPU counts can lead to performance issues but not directly OOM errors. A corrupted Docker image would likely prevent the job from starting altogether.

NEW QUESTION # 52

You are using BCM to manage a Kubernetes cluster with multiple GPU nodes. You need to enable GPU monitoring using Prometheus and the NVIDIA DCGM exporter. Outline the steps required to accomplish this. Choose the correct sequence:

- A. 0 1. Install Prometheus in your Kubernetes cluster. 2. Deploy the NVIDIA DCGM exporter as a DaemonSet in your Kubernetes cluster. 3. Configure Prometheus to scrape metrics from the DCGM exporter endpoints. 4. Verify GPU metrics are available in Prometheus.
- B. 0 1. Deploy the NVIDIA DCGM exporter as a Deployment in your Kubernetes cluster. 2. Configure Prometheus to scrape metrics from the DCGM exporter endpoints. 3. Install Prometheus in your Kubernetes cluster. 4. Verify GPU metrics are available in Prometheus.
- C. 0 1. Deploy the NVIDIA DCGM exporter as a DaemonSet in your Kubernetes cluster. 2. Configure Prometheus to scrape metrics from the DCGM exporter endpoints. 3. Install Prometheus in your Kubernetes cluster. 4. Verify GPU metrics are available in Prometheus.
- D. 0 1. Deploy the NVIDIA DCGM exporter as a DaemonSet in your Kubernetes cluster. 2. Configure the NVIDIA DCGM exporter endpoints. 3. Install Prometheus in your Kubernetes cluster. 4. Verify GPU metrics are available in Prometheus.

- E. 0 1. Configure Prometheus to scrape metrics from the DCGM exporter endpoints. 2. Install Prometheus in your Kubernetes cluster. 3. Deploy the NVIDIA DCGM exporter as a DaemonSet in your Kubernetes cluster. 4. Verify GPU metrics are available in Prometheus.

Answer: A

Explanation:

Prometheus must be installed first to enable metric collection. The DCGM exporter is then deployed as a DaemonSet (to ensure it runs on every node) and configured, enabling Prometheus to scrape the GPU metrics. Finally, the metrics availability is verified.

NEW QUESTION # 53

You're deploying a deep learning model training job to your Kubernetes cluster managed through BCM. This job requires exclusive access to two GPUs on a specific node with high memory bandwidth. How would you best configure your pod to achieve this?

- A. Use a 'nodeSelector' to target the specific node and request 'nvidia.com/gpu: 2' in the pod's resource requests.
- B. Use 'kubectl patch node -p' to make the node only schedulable for your pod, and then request 'nvidia.com/gpu: 2' in the pod's resource requests.
- C. All of the above would work.
- **D. Use a 'nodeAffinity' with 'requiredDuringSchedulingIgnoredDuringExecution' to target the specific node and request 'nvidia.com/gpu: 2' in the pod's resource requests.**
- E. Use a combination of 'nodeSelector' and 'tolerations' to target the specific node, and request 'nvidia.com/gpu: 2' in the pod's resource requests.

Answer: D

Explanation:

Using 'nodeAffinity' with 'requiredDuringSchedulingIgnoredDuringExecution' ensures that the pod is scheduled on the specific node. 'nodeSelector' only allows simple label matching. Setting the node to unschedulable is overly restrictive, and the 'tolerations' approach (D) is for nodes with taints, which is not the goal here. 'requiredDuringSchedulingIgnoredDuringExecution' is preferred, it allows pod to continue if nodes go down after scheduling, 'requiredDuringSchedulingRequiredDuringExecution' will cause the pod to be evicted

NEW QUESTION # 54

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