

# Well-Prepared New NCA-AIIO Exam Labs–Verified Related Certifications for NCA-AIIO: NVIDIA-Certified Associate AI Infrastructure and Operations



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## NVIDIA NCA-AIIO Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"> <li>AI Operations: This section of the exam measures the skills of data center operators and encompasses the management of AI environments. It requires describing essentials for AI data center management, monitoring, and cluster orchestration. Key topics include articulating measures for monitoring GPUs, understanding job scheduling, and identifying considerations for virtualizing accelerated infrastructure. The operational knowledge also covers tools for orchestration and the principles of MLOps.</li> </ul>
Topic 2	<ul style="list-style-type: none"> <li>AI Infrastructure: This section of the exam measures the skills of IT professionals and focuses on the physical and architectural components needed for AI. It involves understanding the process of extracting insights from large datasets through data mining and visualization. Candidates must be able to compare models using statistical metrics and identify data trends. The infrastructure knowledge extends to data center platforms, energy-efficient computing, networking for AI, and the role of technologies like NVIDIA DPUs in transforming data centers.</li> </ul>
Topic 3	<ul style="list-style-type: none"> <li>Essential AI knowledge: Exam Weight: This section of the exam measures the skills of IT professionals and covers foundational AI concepts. It includes understanding the NVIDIA software stack, differentiating between AI, machine learning, and deep learning, and comparing training versus inference. Key topics also involve explaining the factors behind AI’s rapid adoption, identifying major AI use cases across industries, and describing the purpose of various NVIDIA solutions. The section requires knowledge of the software components in the AI development lifecycle and an ability to contrast GPU and CPU architectures.</li> </ul>

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### NVIDIA-Certified Associate AI Infrastructure and Operations Sample Questions (Q35-Q40):

#### NEW QUESTION # 35

Which of the following NVIDIA tools is primarily used for monitoring and managing AI infrastructure in the enterprise?

- A. NVIDIA Base Command Manager
- B. NVIDIA DGX Manager
- C. NVIDIA Data Center GPU Manager
- D. NVIDIA NeMo System Manager

**Answer: A**

Explanation:

NVIDIA Base Command Manager is an enterprise-grade platform for monitoring, orchestrating, and managing AI infrastructure at scale, including DGX clusters and cloud resources. It offers unified visibility and workflow automation. DCGM focuses on GPU monitoring, DGX Manager is system-specific, and NeMo System Manager is fictional, making Base Command Manager the enterprise solution.

(Reference: NVIDIA Base Command Manager Documentation, Overview Section)

#### NEW QUESTION # 36

Which two components are included in GPU Operator? (Choose two.)

- A. DCGM
- B. TensorFlow
- C. Drivers
- D. PyTorch

**Answer: A,C**

Explanation:

The NVIDIA GPU Operator is a tool for automating GPU resource management in Kubernetes environments.

It includes two key components: GPU drivers, which provide the necessary software to interface with NVIDIA GPUs, and the NVIDIA Data Center GPU Manager (DCGM), which offers health monitoring, telemetry, and diagnostics for GPU clusters.

Frameworks like PyTorch and TensorFlow are separate AI development tools, not part of the GPU Operator, which focuses on infrastructure rather than application layers.

(Reference: NVIDIA GPU Operator Documentation, Components Section)

#### NEW QUESTION # 37

What is the primary command for checking the GPU utilization on a single DGX H100 system?

- A. nvidia-smi
- B. ctop
- C. nvmf

**Answer: A**

Explanation:

The `nvidia-smi` (System Management Interface) command is the primary tool for checking GPU utilization on NVIDIA systems, including the DGX H100. It provides real-time metrics like utilization percentage, memory usage, and power draw. NVML (NVIDIA Management Library) is an API, not a command, and `ctop` is unrelated, solidifying `nvidia-smi` as the standard.

### NEW QUESTION # 38

Which are three key features of InfiniBand networking technology?

- A. GPU offloads, low latency, high reliability.
- **B. Low latency, high bandwidth, and CPU offloads.**
- C. High reliability, high latency, and CPU offloads.
- D. High latency, high reliability, and high bandwidth.

**Answer: B**

Explanation:

InfiniBand is renowned for three key features: low latency (microsecond-scale communication), high bandwidth (100 Gb/s and beyond), and CPU offloads (via RDMA), which shift data transfer tasks to the network hardware, boosting system efficiency. High latency contradicts InfiniBand's design, and GPU offloads are not a core networking feature, making low latency, high bandwidth, and CPU offloads the definitive trio.

(Reference: NVIDIA Networking Documentation, Section on InfiniBand Features)

### NEW QUESTION # 39

You are assisting in a project where the senior engineer requires you to create visualizations of system resource usage during the training of an AI model. The training was conducted using multiple NVIDIA GPUs over several hours. The goal is to present the results in a way that highlights periods of high resource utilization and potential bottlenecks. Which type of visualization would best illustrate periods of high resource utilization and potential bottlenecks during the training process?

- **A. Heatmap showing GPU utilization over time.**
- B. Stacked bar chart showing cumulative resource usage.
- C. Box plot showing the distribution of resource usage.
- D. Pie chart showing the proportion of time each GPU was utilized.

**Answer: A**

Explanation:

A heatmap showing GPU utilization over time is the most effective visualization for identifying periods of high resource utilization and potential bottlenecks during AI model training on multiple NVIDIA GPUs.

Heatmaps provide a time-series view with color gradients indicating intensity (e.g., GPU usage percentage), allowing quick identification of peak usage, idle periods, or uneven load distribution across GPUs—key indicators of bottlenecks. NVIDIA tools like `nvidia-smi` and DCGM generate time-based GPU metrics that align with this approach. Option A (stacked bar chart) aggregates data, obscuring temporal patterns. Option B (pie chart) shows static proportions, not time-based fluctuations. Option D (box plot) summarizes distribution but lacks temporal detail. NVIDIA's performance analysis workflows, as per their AI infrastructure documentation, recommend time-based visualizations like heatmaps for such tasks.

### NEW QUESTION # 40

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