

Assembling AI Servers in Eastern Europe



Article Overview

Deploying AI servers in Eastern Europe requires careful planning around high-density GPU hardware, local infrastructure, EU regulations, and access to regional AI hubs.

Hardware and Infrastructure Considerations

Modern AI servers rely on high-density GPU clusters, such as NVIDIA H100 or Blackwell-based systems, often configured in HGX-class 8-GPU racks. These setups demand rack densities of 60–80 kW, low-latency interconnects like InfiniBand or advanced Ethernet, and storage subsystems capable of extreme throughput. Cooling strategies typically involve liquid or hybrid cooling, and power planning must be considered at the facility level, not just per rack, to ensure stable operation for sustained AI workloads .

Regulatory and Sovereignty Requirements

Deploying AI infrastructure in Europe introduces data residency and compliance constraints. EU regulations, including GDPR and the AI Act, dictate where data and workloads can reside. Sovereign infrastructure providers, such as CUBITICS, offer fully EU-based GPU clusters, ensuring no foreign access under CLOUD Act or FISA, while maintaining high-performance distributed training capabilities . Export regulations may also affect hardware sourcing, so procurement pathways must comply with EU rules .

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