Data Centers VS. Hyperscale Data Centers

Data Centers

- Smaller, often serving a single organization with a few hundred to a few thousand servers

- Can be onsite or at a dedicated off-site location

- Owned & Operated by a single organization & managed by internal IT staff

- Supports internal IT infrastructures, focusing on specific business needs and compliance requirements

- Less automated with more tasks handled by staff

- May rely on traditional infrastructure

Hyperscale Data Centers

- Significantly larger, housing at least 5,000 servers & occupying over 10,000 square ft

- Designed to handle massive workloads

- Owned by large tech companies (ex. Google, Amazon)

- Managed by specialized IT teams

- Often operate as multi-tenant facilities, providing services to various clients.

- Built for cloud computing, big data, & AI applications

- High throughput and low latency design - to handle vast amounts of input across networks

- Heavily automated using AI & machine learning tools