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® Next DC Design for Generative AI workloads & HPC

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The evolution of data center (DC) design over the years has been pivotal in shaping the digital landscape, particularly with the rise of Web 2.0 and now, the advent of Generative AI. Initially, the growth of Web 2.0 was underpinned by technologies that focused on increasing data storage capacities and improving network bandwidth to support burgeoning internet services and cloud computing. As we step into the era of Generative AI, the demands on DCs have dramatically escalated, requiring not just enhanced storage and connectivity, but also unprecedented computational power and energy efficiency. The new DC designs are poised to future-proof themselves by adopting cutting-edge technologies like advanced cooling systems, AI-driven automation for operational efficiency, and modular designs for scalable expansion.

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