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Edge Computing

A distributed computing platform that puts business applications closer to data sources like IoT devices and local edge servers. Edge computing reduces the requirement for client-server communication across large distances. Edge computing allows companies and other organizations to handle data more quickly and efficiently using enterprise-grade apps.

Types

◆ Device Edge

◆ Sensor Edge

◆ Mobile Edge

◆ Data Center Edge

◆ Internet of Things Edge

◆ Wireless Access Edge

◆ Router Edge

◆ Service Provider Edge

◆ Branch Edge

◆ Network Edge

◆ Cloud Edge

◆ Enterprise Edge

Challenges

◆ Network bandwidth

◆ Limited capability

◆ Connectivity

◆ Security and accessibility

◆ Latency

◆ Backup

◆ Data accumulation

◆ Scalability

◆ Control and management

◆ Distributed computing

◆ Data lifecycles

◆ Proximity

Trends

◆ The edge computing market size is expected to grow from $36.5 billion in 2021 to $87.3 billion by 2026, at a CAGR of 19.0% during the forecast period

◆ Edge availability, and edge services are expected to become available worldwide by 2028

◆ According to Statista, there will be over 75 billion IoT devices deployed worldwide by 2025. Significant quantities of computing will have to be shifted to the edge in order to support all of those devices

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