



**FACULTY: MALAYSIA-JAPAN INTERNATIONAL INSTITUTE OF
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TECHNOLOGY AND INFORMATION SYSTEM

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DESIGN THINKING

Poster: Cloud and edge computing

Group 2	
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1990

Akamai CDN

- ⊕ Images and videos delivered closer to consumer.



1997

Pervasive Computing

- ⊕ Speech recognition & cyber foraging for improved energy consumption.



2001

Peer to Peer

- ⊕ Proximity-routing in overlay P2P networks to avoid long-distance links.



2006

Cloud Computing

- ⊕ Amazon's Elastic Compute Cloud (EC2) service.



2009

Cloudlets

- ⊕ Cloudlets offer lower latency and allow to offload work.



2012

Fog Computing

- ⊕ Introduced by Cisco, focuses on scalability and latency in IoT.



Today

Cloud and edge computing

Complementing both worlds.

- ⊕ Flexibly deployable applications (cloud vs. edge) with zero downtime
- ⊕ Rich API support for easy integration of heterogeneous local and remote services
- ⊕ Digital twin support and synchronization between device, edge and cloud
- ⊕ Offline & online mode
- ⊕ Polyglot protocol support
- ⊕ Edge analytics
- ⊕ Local processing i.e., filtering, aggregation, de/coding, etc.
- ⊕ Simplified device access and unified application APIs
- ⊕ Support for different IoT domain needs