

Professor Mohammad Hammoud: Cloud Computing

1. What is cloud computing?

Cloud computing allows users to remotely access services like storage, servers, and software without needing to interact with hardware.

Source: [What Is Cloud Computing? | IBM](#)

2. Is cloud computing a new technology per se? In other words, what are the unique technology features of cloud computing, if any?

No, cloud computing is not a new technology; it has been around since the 1960s. According to NIST, the main features of cloud computing are “on-demand self-service, broad network access, resource pooling, rapid elasticity or expansion, and measured service.”

Source: [What Is Cloud Computing? | IBM](#) and [NIST Cloud Computing Definition](#)

3. What are the three major cloud service models?

The three major cloud service models are:

1. IaaS, which provides servers and storage for running applications.
2. PaaS, which provides tools and platforms for creating applications.
3. SaaS, which provides preconfigured software.

Source: [IaaS, PaaS, SaaS: What's the difference? | IBM](#)

4. Name at least 3 real-world domains where the application of cloud computing was (or can be) very enabling and effective.

1. E-commerce: rapid reactions to market opportunities
2. Education: long-distance learning
3. Medicine: store patient data

Source: [Real World Applications of Cloud Computing - GeeksforGeeks](#)

5. What is the economic/business model of cloud computing?

Cloud providers use the ‘pay as you go’ cloud models. In other words, users are only required to pay for the exact amount of resource they use.

Source: [Economics of Cloud Computing - GeeksforGeeks](#)