





- Infrastructure as a Service (laaS): Provides on-demand access to virtual servers, storage, and networking resources.
- Platform as a Service (PaaS): Offers a full development and deployment environment with pre-configured components.
- Software as a Service (SaaS): Delivers ready-to-use applications accessible through a web browser or mobile app.

  Private Cloud: Dedicated cloud infrastructure hosted on-premises offering
- enhanced security and control.
- Public Cloud: Shared cloud infrastructure provided by third-party vendors like AWS, Microsoft Azure, and Google Cloud Platform.
- Hybrid Cloud: Combines public and private cloud resources for increased flexibility and control.





- Business: Cloud-based CRM, ERP, and HR systems improve agility, scalability, and cost-efficiency.
- Healthcare: Electronic medical records, telemedicine, and data analytics enhance patient care and research.
- Education: Virtual classrooms, learning management systems, and collaborative tools optimize access to education.a
- E-commerce: Cloud-powered enhance scalability, security, and personalized shopping experiences.
- Entertainment: Video streaming, gaming, and content delivery platforms rely on robust cloud infrastructure.
- Scientific research: Large-scale data analysis, simulations, and scientific collaboration are powered by the cloud.



## What is AWS?

AWS, or Amazon Web Services, is a cloud computing platform offered by Amazon. It provides a wide range of services and tools that enable businesses and individuals to build and scale applications and infrastructure in a flexible and cost-effective manner. AWS offers services across various domains such as computing power, storage, databases, networking, analytics, machine learning, and artificial intelligence. It allows users to access virtual servers, storage, databases, and other resources on-demand, paying only for the specific resources consumed. AWS is known for its scalability, reliability, and global presence, with data centers located in multiple regions around the world. It has become a popular choice for organizations of all sizes, from startups to large enterprises, looking to leverage the benefits of cloud computing.



Security and Identity Services

7. Al and Machine Learning



