



# What is cloud computing and its advantages?

In simplest terms, the cloud refers to the internet. When organizations store data in virtual data centers or access programs using an internet connection instead of relying on their device's hard drive or on-premises IT infrastructure, it means they are operating in the cloud.

[Cloud computing](#) can be as simple as “servers in a third-party data center” or entire serverless workloads that are infinitely scalable and geo-redundant. Cloud servers and services are scalable and elastic.

## **Advantages of Cloud Computing**

### **1) Back-up and restore data**

Once the data is stored in the cloud, it is easier to get back-up and restore that data using the cloud.

### **2) Improved collaboration**

Cloud applications improve collaboration by allowing groups of people to quickly and easily share information in the cloud via shared storage.

### **3) Excellent accessibility**

Cloud allows us to quickly and easily access store information anywhere, anytime in the whole world, using an internet connection. An internet cloud infrastructure increases organization productivity and efficiency by ensuring that our data is always accessible.

### **4) Low maintenance cost**

Cloud computing reduces both hardware and software maintenance costs for organizations.

### **5) Mobility**

Cloud computing allows us to easily access all cloud data via mobile.

### **6) IServices in the pay-per-use model**

Cloud computing offers Application Programming Interfaces (APIs) to the users for access services on the cloud and pays the charges as per the usage of service.

### **7) Unlimited storage capacity**

Cloud offers us a huge amount of storing capacity for storing our important data such as documents, images, audio, video, etc. in one place.

### **8) Data security**

Data security is one of the biggest advantages of cloud computing. Cloud offers many advanced features related to security and ensures that data is securely stored and handled.