



# Cloud Computing





## Cloud Computing

In this chapter we are going to talk about **Cloud Computing**. We all have used cloud computing in some way, but we don't know they call it cloud so in this lecture we are going to explain what do we mean by cloud computing.

Our **objectives** in this lecture are the first point is cloud computing meaning we are going to talk about cloud and what do we mean of the cloud computing, Secondly the advantages of the cloud computing then we will explain the types of clouds, finally cloud computing services.

**Cloud computing** means that data, applications, and resources are stored on servers accessed over the Internet rather than on users' computers, and you access only what you need when you need it. That's mean it is a storage space we can only access to this space through the Internet, without Internet we cannot access to the applications or data or our resources. There are many examples of cloud computing such as Dropbox, YouTube, emails, iCloud and much more.

There are many **advantages** of cloud computing, which offer benefits for organizations and individuals the first one is cost saving, so Cloud computing is one of the cheapest media to save your data. Secondly backup and restore data with the cloud computing you can add delete and modify your data while you are connected to the Internet, Lastly flexible storage capacity, with the cloud computing we can extend or shrink the space that we need.

There are **four types of clouds** the first one public cloud which is he cloud infrastructure is made available to the general public or a large industry group and is owned by an organization selling cloud services. Secondly private cloud, the cloud infrastructure is operated solely for an organization. It may be managed by the organization or a third party and may exist on premise or off premise. Thirdly community cloud, which is available to members of a community. Lastly hybrid cloud, means composition of the previous three types which are public and private and community clouds.

There are three main **Cloud Computing Services**. Firstly, Software as Service (SaaS) is software that's available via a third-party over the internet. For example, BigCommerce, Google Apps, Salesforce, Dropbox, which is frequently used by End users. Secondly, Platform as Service (PaaS) is hardware and software tools available over the internet. Such as, Windows Azure, OpenShift, Magento Commerce Cloud, which is frequently used by Application Developers. Lastly, Infrastructure as Service (IaaS) is cloud-based services, pay-as-you-go for services such as storage, networking, and virtualization. For example, Google Compute Engine (GCE), Digital Ocean, which is frequently used by Network Architects.



## References

Ann Shaffer, Patrick Carey, June Jamrich Parsons, Dan Oja, Kathleen T. Finnegan. (2014). *New Perspectives on Microsoft® Office 2013, First Course*.