

## INFORMATION TECHNOLOGY

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### WHAT ARE THE BENEFITS OF USING CLOUD STORAGE TOOLS IN EDUCATION?

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#### **Abstract**

In this article we define some storage tools in cloud and share files and their importance in the field of education and a relationship, in particular educational technology and the world of technology in general, we refer to the emergence of new technical terms recently as services cloud storage and cloud music, and applications cloud, and even cloud operating systems. Whether on computers or tablet PCs or smart phones, it seems that the term "cloud" will be everywhere. So what is the cloud (the term technical) and what is cloud computing (cloud storage), which is now everyone is talking about these days?

**Keywords:** cloud computing , education system .

#### **Introduction**

##### **1 - What is cloud storage?**

A simple definition: a simplified definition says that cloud storage is you use computing resources (hardware and software) via the Internet, provided to you in the form of service.

B - the definition of Wikipedia: Cloud Storage is a model for storage on the Internet where data is stored on Servers multiple virtual, rather than hosted on a specific server, and is usually provided by a third party, where the major hosting companies to lease tracts storage cloud for their clients in line with their needs.

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C- a more precise definition for cloud storage is defined as a huge computers contain huge storage space users to raise their files them to be stored, as the companies create programs upon which termed cloud computing, you are, for example, when you need to program Word play his inauguration on your computer so you can use it either in the cloud computing Microsoft Corp. where upon the inauguration - so to speak - Word on servers company's servers, software, and launching the program on its website so that all users who have accounts in the cloud own storage service from the use of this program, and this will not be obliged to carry your computer with you in all your commute where they can connect from any computer and enter your cloud storage company to the commencement of the use of these circumstances programs, as well as your access to the files that you have stored in the servers.

It should be noted that there are two types of cloud storage services: one free and the other can be used payment of a sum of money all at once or in monthly or yearly.

It must be called that all of your files that are filed on the company cannot be seen by anyone, unless you grant your data to someone else. Because the companies that provide the services these circumstances, when you register to have, is by giving you your own storage space, cannot be reached by anyone else.

### 2 – Cloud storage advantages:

The possibility of use in the field of education at a small cost or free of charge (virtual classrooms)

Synchronize files: When you raise the file or amend it can reach this file from any computer or tablet or mobile use.

File sharing: the electronic message size cannot exceed 25MB and this is a problem for people who send large files, so you can upload large files to cloud storage sites and then send link via email.

working together : enables cloud storage Google workers Google service drive users from modifying files jointly and these circumstances are very useful service for students who perform work requiring presence at the same time, as well as professionals who complete the studies or implementation of, or the development of a common dye projects without the need to be present the actual in the same place.

Take an extra copy of your files and data: If you have files or important data is better that you make a backup copy in case of theft or your computer crashes or work. The most famous of these circumstances companies that provide services are **Mozy** and **Carbonite**.

Save and share photos: We all have our important images we want to keep them and most of us who has ever lost photographs wished he kept. This is why it is best that we save these images in several places. **flickr** months, the Web site is offering storage service and share photos with friends or with some

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or all persons. If you want to store images only, without their participation, you can keep them in the other cloud storage sites.

- Pay for only what you use.
- Companies do not need to buy new hardware - a new hard disk example-, thereby shrinking the size of the IT department has.
- Reduce the data maintenance costs.
- High flexibility in the space where you can increase or reduce the storage space without having to buy a new hard disks.
- Cloud computing allows you to access all of your applications and services from any place and at any time via the Internet, because the information is not stored on your hard drive but on Servers company service providers.
- Reduce costs for companies, which is no longer necessary to buy faster computers or the best in terms of memory or above in terms of hard drive space, but any device to a normal PC using any browser for Web access cloud services used by the company (edit documents, stored files can be, edit images, etc. ...).
- Ensure that the service permanently, where the company provided to the cloud storage service is committed to ensuring that the service is working around the clock the best possible way.
- Take advantage of the large infrastructure provided by cloud services to do the tests and scientific experiments. Some complex calculations take years to conduct regular computers, while companies such as Google and Amazon allows clouds composed of thousands of maids or servers linked together to perform such calculations in minutes or hours.

### 3 – Disadvantage of cloud storage?

- Intuitively, cloud applications need to connect to the Internet, where will affect lost the Internet on the possibility of your work done, but the companies began to rectify this, and thanks to some HTML techniques 5 and modern JavaScript is possible to build Web applications can work without an Internet connection, then do synchronizes Upon their return, the connection, but we still need more time for these applications and technologies evolve further.

- Security concerns: some fear of putting all of his information and files among enterprises, service providers of cloud, if exposed service for a successful breakthrough, a hacker may be able to get the information of users, in addition to the possibility of selling your information by the company provided for a service or benefit from them will be a real problem. The only security means to you, then, is to resort to large companies reliable and have good reputation in this area.

Most cloud applications have not yet reached the level of traditional desktop applications, for example, photo-editing applications did not reach across the web to levels comparable to the traditional program Photoshop, and

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edit documents via the Web tools up to the level of Microsoft Office, but approaching them gradually over the years

### **4 Storage applications for cloud systems (Android)**

It is a developed application to back up various files on your device and retrieved at any time. The application just does not make a backup copy of all data and files on your device, but it will also save the mobile numbers that you have saved, text messages and even contact record, and all this through the cloud and through the pressure with just one button. All of these things are done through a secure connection for data transfer process. When use of the application for the first time will get the internal capacity of up to 1GB. You can download the application from the Play Store shop free of charge and with ease.

### **Ubuntu One**

Distinguished from the rest of the applications of cloud storage through its ability to integrate large. The application comes as the application of the small compact Files UI, which you can get on and rise various, files automatically "audio files, videos, and text files" through a variety of different applications, "including the application Instagram". Lifting automatically feature also comes with the ability to adjust the settings as the user wants, along with the ability to share uploaded files across different social networking sites. The application can be downloaded from the Play Store through the store, and comes free with a capacity to store up to 5GB.

### **Sandisk memory Zone**

This application is not just an ordinary application of cloud storage, it comes with many other features. The application comes a small tool to manage Android devices on the storage space, along with the ability to manage different applications. Sandisk Memory Zone gives the user the ability to see the proportion of use of internal capacity for the files on the device, showing the percentage of each file and each application. In addition, the application also supports many cloud storage services like Dropbox, Google Docs, Picassa, SugarSync, SkyDrive, and Facebook. You can download the application through the Play Store shop.

### **Megacloud**

If you love your files and your documents management system post Integrated High IQ, the best application for you is Megacloud. This application offers the user features numerous post to social networking sites, along with submission of storage capacity good. The application also comes the ability to configure the direct links for your files. The application can download from the Play Store shop free of charge.

### **Cloud Print**

Summary application for all your needs for cloud storage. By working

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with the Google Cloud Print service, the application to complete work required by most users. The application can print documents and text files through the cloud, with the support of many supply files such as pdf, jpg, docx, xls, ppt, txt, xps, etc. In addition, the application **too** many other features, such as printing the e-mail comes, text messages, and pages on the Internet. The application can be downloaded free of charge through the Play Store shop.

### **6- Cloud storage services that rely encrypt files and data and do not violate user privacy:**

This service provides a free area of 2 GB, expandable to 100 GB for \$ 10 per month. And what distinguishes the service is doing encrypts all the files that are submitted to the service, and can be downloaded to your computer

#### Wuala service

Characterized are other confidential adoption, and security in save files and stored on multiple servers, and allows file sharing and downloaded with ease, along with providing a free area of 5 GB free, and for greater than 20 GB space to 100 GB you can pay 3 euros to 10 euros per month.

#### Tresorit Service:

Specialized service more in store games and files confidentially and securely and without possibilities spied upon by the service owners or hackers, and allows users to initially 5 GB of free space, and available for purchase an estimated area of 100 GB.

And the fact that the service is very safe and the company offered her a confident, they are allocated a grant of up to \$ 10,000 to anyone who could penetrate!

#### Mega.co.nz Service:

Lucrative offers for the users and are available, including 50 GB of free space when joining the service and can be increased to 500 GB at prices starting from 10 euros to 99 euros a month, on the horizon of delivery to an area of 4 terabytes. Without forgetting that they are to maintain your privacy through encryption files.

#### Amazon site

Who among us does not know seeded No. 10 globally site, the site has to enter the storage area of the cloud to compete with the largest specialized companies in this field, offering free storage space of 5 GB , 20GB space can be purchased for \$ 10 for the year and 100GB for \$ 50 for the year and 1000GB for \$ 500 for the year

### **7 - Cloud storage services that violate your privacy, under the pretext of protecting property or public security:**

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Contrary to the above, there are a lot of global services famous cloud storage sector, which is believed to be in violation of the peculiarities of the users making us we advise caution during use and stay away from them if possible, because it displays user data at risk of espionage and viewed by people working within the support team and the development of the service. The text of privacy in all of those services, which is often agree with him without reading it, refers to the right of these companies to see their employees' files and to prevent any files that may violate property rights of companies, or any questionable nature of data.

And of the leading cloud storage services that rely those methods, we find Dropbox and Google Drive and SkyDrive and Apple.

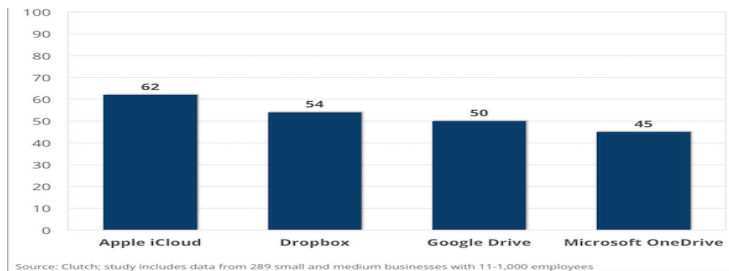


Figure 1: Study Customer satisfaction for cloud storage services - Clutch 2015



Figure 2: existing cloud system, source: <http://www.slideshare.net/KayalvizhiSelvaraj1/privacy-preserving-38365284>

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### **8- The use of cloud storage in Education:**

1 - Give lectures or seminars rations from a distance, so as to be hoisted onto virtual cloud (which may be in the form of a website or application on smart devices) and be available and stored for inspection and browse away from the barriers of time or place.

2 - Participation of the curriculum or part of it through participation provided cloud computing services tools.

3 - Create bridges of communication between teacher and student, in school or in higher education.

4 - Delivery obligations and costs required and follow up with the teacher.

5 - Ease the burden of printing paper, and deliver the duties and return again and many Study on the Internet.

6 - Reduce software costs and maintenance of hardware and reduce energy consumption.

7 - Access to learning resources and resources en masse through education on the Internet.

8 - Enhance efficiency in computer management in schools and monitor the quality of the content. It's also useful for teachers through the participation of educational files between them and their students to receive research and homework with the possibility of editing and comment on the files, store documents and papers shall own that can be used even while traveling.

### **Conclusion**

The future will be for cloud computing certainly. Maybe not after a year, not two, not five or even ten. But we'll get to the point where all the operating systems will be transformed into cloud systems similar to the system Google Chrome OS. Google began early in this line, and will be followed by the rest of the companies, and this is not a prophecy but extrapolation of reality. All operating systems will switch to cloud-based systems fully or almost completely. And you will reach a stage that allows you to run all your applications via the Web, and even the biggest games. Techniques for cloud computing and web applications evolve quickly, and Internet speeds as well as in constant evolution. And soon, dominate the cloud over everything, and perhaps sooner than we imagine.

Although there are downsides to cloud storage, many organizations believe the benefits to far outweigh the risks. The cost savings, disaster-recovery, security, and accessibility are just a few intriguing benefits to businesses. Cloud storage can reduce costs, simplify IT management, improve user experience, and allow employees to work and collaborate from remote locations. This simplifies sharing and collaboration among staff, and easing IT

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logistics as a whole.

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## PATTERN RECOGNITION

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### THE RELEVANCE AND SCIENTIFIC JUSTIFICATION FOR THE RECOGNITION OF ELECTRO-OPTICAL IMAGES. THE ADVANTAGES AND DISADVANTAGES OF NEURO-FUZZY RECOGNITION SYSTEM

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#### Abstract

Describes the main stages of the historical development of pattern recognition algorithms and, in particular, electro-optical images. The basic operation in pattern recognition extensionality methods. The advantages and disadvantages of neuro-fuzzy system and adaptive fuzzy systems. The conditions of effective construction of classification system.

**Keywords:** electro-optic image recognition, neuro-fuzzy systems, adaptive fuzzy system, classification system.

#### Введение

Задача распознавания образов впервые возникла еще в начале XX века. Основы формализации этой задачи заложены в работах Дж. Фон Неймана [1], А. Моргенштерна, Д. Дюбуа [2], Т. Саати [3], Н.А. Айзермана, Н.И. Шлезингера, Л.А. Заде, Д. Наука, Г. Крузе, Ф. Розенבלата, Т. Кохонена, М.М. Амосова, Ю.И. Журавлева, В. Я.А. Фурмана, Г.Х. Садыхова, П. Путьянина и других ученых.