

## CLOUD TECHNOLOGY

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### ANNOTATION

This article discusses the important aspects of cloud technology in our current lives and the future role of cloud technology.

**Keywords:** Cloud technology, digital, life, data, storage, technology, resource.

### INTRODUCTION

Digital technologies have become so ingrained in our lives that today it is impossible to imagine not only our daily activities, but also the development of socio-economic spheres without them. Naturally, as in other areas, the introduction of digital technologies in tax administration is radically changing its activities. This is not only related to the relationship between taxpayers and tax authorities, but also introduces innovations, from filing declarations to methods of paying taxes and storing data.

Information technology is becoming an integral part of our lives. Evidence of this can be found in modern data storage systems. Cloud technology, which has been evolving for several years, is being used to improve business management, data sharing, and user-friendliness. It is clear that this technology will become a common tool in a decade, and no industry can be imagined without it

Cloud applications are the execution of various Internet services. Examples of such functions include data storage, servers, databases, applications, and social networks. Cloud applications allow you to store data on a central network, rather than on computer files or a hard drive. For many reasons, Cloud Computing is a popular option for individuals and companies, including saving time, increasing efficiency, speeding up and protecting

What is cloud technology?

Cloud technology is a popular technology that users use to enter or retrieve information on IT resources on an Internet platform. This technology is used to store data and resources on an online server and for safe use instead of the user storing them directly on the computer's hard drive. Another good aspect of cloud technology is that you can enter or receive data from these online servers anywhere in the world. There are a variety of cloud technology services that are very popular and widely used in the world today, such as large-scale storage and backup, software testing and maintenance, data analysis and delivery of required software.

Why do we use it?

Cloud application technology is an Internet-based platform that delivers information from a server to a client through network channels. Therefore, in today's world where technology is being updated at the speed of light, it is very important to know which technology to switch to

and how to use the technology properly. Thus, despite the popularity of cloud technology and the negative impact of the Internet, it remains the fastest technology and it has become the latest trend in today's market

Hence, the goal of using it is to enable business users to expand their markets by diversifying resources by connecting customers around the world and retaining customers in the field using the resources they need in a timely manner. I think that's why everyone uses cloud apps, which gives us the perfect system to back up files of any size. For IT professionals, this has been a tremendous growth in the latest technology trend, with the ability to access and work with resources from anywhere in the world and make working and working with customers more flexible.

Cloud technologies are data processing technologies that provide computer resources to an Internet user as an Internet service. The word "cloud" is present here as a metaphor for a complex infrastructure that hides all technical details. computer resources and capabilities are provided

The user has access to his data but cannot control it and should not worry about the infrastructure, operating system and the software he is running. The term "cloud" is used as a metaphor based on an Internet image in a computer network diagram, or as an image of a complex infrastructure in which all technical details are hidden. According to an IEEE document published in 2008, "Cloud computing is a paradigm in which information is permanently stored on Internet servers and temporarily stored by the client, such as on personal computers, game consoles, laptops, smartphones, and so on. Cloud data processing as a concept includes:

- 1) Infrastructure as a service
- 2) Platform as a service
- 3) As a service as a program
- 4) Data as a service
- 5) Workplace as a service

Other technological trends in which there is a general belief that the Internet can meet the needs of users for data processing. The most important feature for cloud technologies is that users unequally require Internet resources. To overcome this unevenness, another intermediate layer is applied - server virtualization. Thus, the load is distributed between virtual servers and computers.

Cloud technology - This is one big concept that encompasses the various concepts that services provide. For example, software, infrastructure, platform, data, workplace, and so on. Why do we need all this? What isn't called cloud computing? The first is offline computing on a local computer. Second, "utility computing" (utility computing), especially when the service is instructed to perform complex calculations or store a series of data. Third, it is collective (distributed) computing (grid computing). In practice, the boundaries between all these types of calculations are blurry enough. However, the future of cloud computing is much bigger than that of auxiliary and distributed systems.

Cloud data storage is an online storage model in which data is stored on multiple servers distributed over a network and made available to customers, primarily for use by a third party.

Unlike a model purchased or rented specifically for this purpose to store data on its own dedicated servers, the number of servers or any internal structure is not visible to the customer at all. The data is stored and processed in a so-called cloud, which represents a single large virtual server from the client's point of view. Physically, such servers can be located far away from each other, up to the location of different continents. To understand what a "cloud" is, we need to start with the history of this issue. You need to understand: does this technology really fall into the category of new ideas, or is this idea not so new.

Advantages of cloud services

To get started, let's focus on the available pluses, which include:

You don't have to buy expensive computers and accessories to store data because everything is stored "in the cloud".

Computer performance improves because in office work and other areas, cloud technology remotely controls applications, leaving a lot of space on the computer.

Every year, maintenance problems decrease as the number of physical servers decreases steadily and the software is constantly updated.

The purchase price of the app is reduced because you only need to buy the app once for the "cloud" and that's all, and sometimes you can even order it for rent.

Cloud technologies have no restrictions on the amount of data that can be stored. In most cases, the volume of such services is in the millions of gigabytes.

Software is updated automatically, so there is no need to follow this, as in downloaded programs.

Cloud can be used on any operating system, as access to applications is done through web browsers.

New cloud technologies always give you access to documents because the key is the availability of the Internet.

Good security and data loss protection because the data sent is automatically saved and copies are thrown to the backup servers.

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