

# Cloud computing

No more company purchases of servers and software: All of those resources can now be pooled and made available. How can this new way of using computer systems, called cloud computing, simplify your life?

Does the freedom from our historical consumption of computer products seem utopian? Nevertheless, the arrival of high speed and very high speed data transfer and the proliferation of efficient mobile technologies (smartphones and tablets) have enabled the rise of cloud computing. This is not new technology but rather a new way of using computer and software resources. How? By providing necessary resources on demand via the Internet from remote, secure servers, with payment based on usage. In practice, companies now no longer need to invest in servers of which they use only 30% capacity or in software that needs updating. Instead they rent space on pooled external servers.

## Why does cloud computing simplify your life?



The reason is first and foremost practical: Resources are accessible throughout the world. It is then a question of finance: Outsourcing IT equipment makes it possible to eliminate superfluous purchase and maintenance costs, besides which the resources are shared among all the companies that use the service. Each pays for what it uses.

### Cloud Computing: For Me?

As an individual, you perhaps already use services enabled by cloud computing, such as online storage of your photos, music recordings, or various documents, to make them available whenever and wherever you want them.

## Cloud computing, an advance in which VINCI Energies participates

As a result, users, whether companies or individuals, can now choose the solution best adapted to their needs: storing their data on their own servers or computers, or having it hosted in a private cloud, or making use of a public cloud. Some companies may also choose hybrid solutions, depending on the criticality of their applications and the IS strategy they want to implement.

### Public and private clouds

A public cloud is managed by a provider. Users gain access to it through the Internet and multiple entities share computing resources. A private cloud is used by a single company and is deployed internally. If it is hosted by a service provider it is accessible only through secure networks

For the cloud to exist, it is necessary to have storage locations for all the data, called **data centers**, along with high-performance connections to expedite exchange of the stored

data. To meet the increasing demand associated with the cloud, VINCI Energies business units are involved in the deployment of higher-performance internet services as well as data center construction. And so, Axians deploys optical fiber and 4G and helps companies migrate to the cloud as well. The brand has installed a private cloud for the [PSV Eindhoven stadium](#) in the Netherlands. Sotécnica AFB, a VINCI Energies business unit participated in construction of [the sixth largest data center in the world in Portugal](#) . The Group also provides maintenance for the data center, through [VINCI Facilities](#).



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