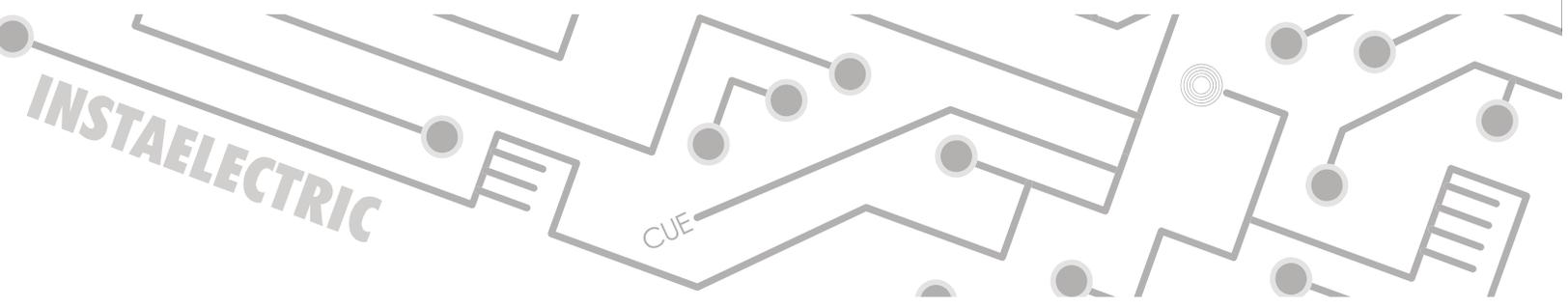# INSTAELECTRIC *

data center specialists

white papers

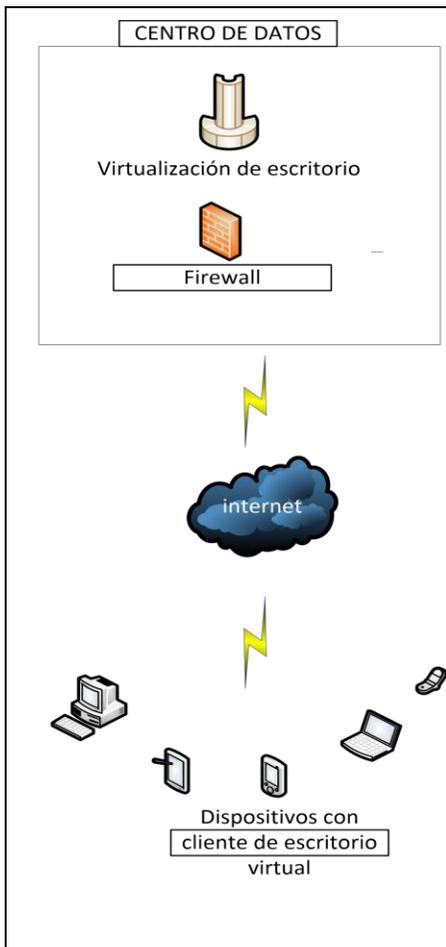# Virtual Desktops

By: Italo E. Ayesteran R.

With the adoption of the technology of Cloud Computing (Cloud Computing), virtual desktop solutions represent one of the most powerful ways to increase performance and timing of work, companies with a great need for mobility and access to tools organizational information. We present some elements of this technology.

In traditional business organizations, worker's productivity is affected when IT departments have to update their desktops, applications and maintenance of all components. Another factor that affects productivity is telecommuting increasingly necessary in today's world.

The development and deepening of the Cloud Computing technology is allowing optimization of the tools used by organizations for their operations. One of them is represented by virtual desktops (Virtual Desktop). This tool helps improve worker productivity by virtualizing applications their jobs at a central location. In this way, IT departments, they just have to apply maintenance in the data center, and not on each device workers or users of office applications.

CENTRO DE DATOS

Virtualización de escritorio

Firewall

internet

Dispositivos con
cliente de escritorio
virtual

Virtual desktops were first used in the late 90s, where it had high capacity computer storage and processing of information, in which the applications were installed. Then on personal computers or PC's, I was installed a client that emulated a terminal connected to the large computer and it could use by multiple users taking advantage of the processing power of the host computer and depending very little from the PC where it was emulating the connection. With the adoption of virtualization technology, this concept has been used to implement the concept of virtual desktops for office applications such as word processors, spreadsheets, browsers, etc. These applications can be for personal use for any member of staff of an organization, accessing from any remote workstation connected to the Internet, and even from mobile devices like tablets or smartphones. This way you can make any transaction with these office applications, from any remote location, having at hand a mobile device and an internet connection.

Some advantages of using this technology for today's business environment:

Cost reduction in upgrading PC's

Instead of having to replace the PC's of employees of a company every two or three years, the organization can extend the useful life of this equipment with technology that centralizes applications in the datacenter. Then, to replace workstations for obsolescence, you can use lighter and inexpensive equipment, reducing costs of supply of equipment. In other hand, it's guaranteed the update of the applications where it's meant to be used.

Using Windows applications on mobile computers (Windows as a Service)

The use of mobile devices is a great success not only between companies but also personally. The virtual desktop technology, allows for the incorporation of these devices to the applications of the organization of any kind, whether technical or commercial, making possible the full functionality of Windows with touch screen technology.

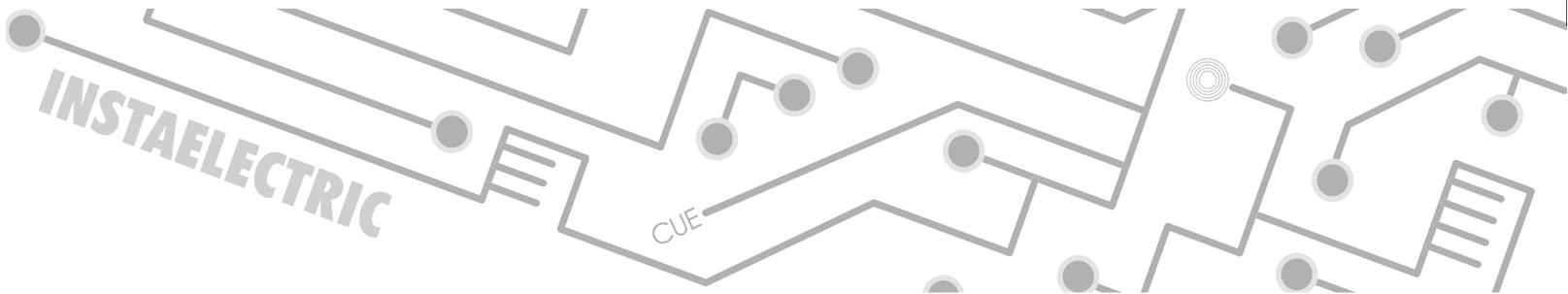Using personal devices in the enterprise or BYOD (Bring Your Own Device)

 By integrating mobile devices like tablets or smartphones to enterprise applications, you can afford it, taking the appropriate security mechanisms that workers use their own devices to connect to the organization, while maintaining their applications for personal use the same device.

Access to the organization with any internet connection

Workers who access the virtual desktop remotely, can be used to connect any local internet service provider without the need to hire dedicated connection services and high cost.

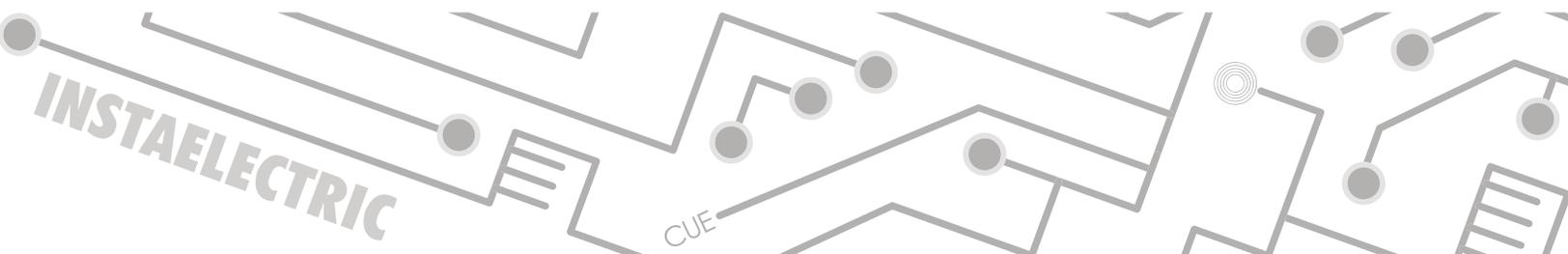Allow access to virtual applications to thirds safely

It can provide access to enterprise applications from third parties through thin clients that are installed on their own laptops. This way access to organizational information in a secure manner and the exact time they need this access is controlled.

THE CHALLENGE FOR SERVICE PROVIDERS

Service providers of cloud computing (Cloud Computing), have in implementing Virtual Desktop, the opportunity to provide technology and service. Through virtualization technologies and the use of internet connections should provide a flexible environment productivity, unlimited platforms and reasonable costs.

The operating modes include data center infrastructure, all the necessary software licensing and ongoing support in their use. The technology should allow the use of technological resources from different providers to deliver services to companies, particularly delivering virtual desktops with all its resources, easy to implement and administer, taking into account all the safety measures information without incurring high costs for organizations. These desks should incorporate the use of public, private and hybrid clouds, enabling remote workers to maintain and increase your productivity wherever you are.

Virtual desktops allow us to gain ubiquity and social features. From the point of view of information handled, allow us to save backups of your files in the cloud. Looking ahead, the popularization of the virtual desktop through integration with existing storage systems like DropBox, SkyDrive, Box, SugarSync, among others, and private storage systems company, ensuring the end user the confidentiality of their data.

> " Virtual desktops allow us to gain ubiquity and
> social features "