Virtualisation

The process of creating software (or virtual) representation of something rather than a physical one.

Can apply to applications, servers, storage and networks.

Product overview

In today's dynamic environments, you need to improve agility to keep pace with fast-changing business needs. In order to stay ahead of this curve IT infrastructure becomes larger and more complex. SevenC's virtualisation technologies addresses some of today's most pressing technology challenges and solves inefficiencies by enabling multiple operating systems and applications to run on a single physical server or host.

How does Virtualisation work?

At its heart is the virtual machine, a tightly isolated software container with an operating system and application inside. Because each virtual machine is completely separate and independent, many of them can run simultaneously on a single computer. A thin layer of software called a hypervisor decouples the virtual machine from the host.

The architecture redefines your computing equation and delivers:

- Many applications on each server
- Maximum server utilisation, minimum server count
- Faster, easier application and resource provisioning

Structure

Virtualisation is the single most effective way to reduce IT expenses while boosting efficiency.

Use Virtualisation to build the foundation of the next generation of IT.

Features

Partitioning

- Run multiple operating systems on one physical machine
- Divide system resources between virtual machines

Isolation

- Provide fault and security isolation at the hardware level
- Preserve performance with advanced resource controls

Encapsulation

- Save the entire state of a virtual machine to files
- Move and copy virtual machines as easily as moving and copying files

Hardware independence

- Provision or migrate any virtual machine to any physical server

SevenC will make your move to Virtualisation a successful one

SevenC will ensure the following:

- Support for business-critical applications: Business critical applications are the lifeblood of any business; we will ensure they run on the most advances virtualisation platforms (the right platform will deliver high application performance and availability)
- Capacity management - We will enable to your business to employ sophisticated operations intelligence to optimise your infrastructure capacity, so that you can achieve the highest ROI from your hardware investment
- Performance monitoring - We will ensure performance data is quickly aggregated and analysed; performance from your organisation will be improved by the application of proactive analysis

Benefits

- Reduced complexity: significantly reduce the complexity of your environment and pool infrastructure that can be managed holistically
- Simplified IT management: Our virtualisation management tools include intelligent automation capabilities, which streamlines routine maintenance and troubleshooting; these tools assist to proactively detect and resolve issues to reduce downtime
- Robust security: In virtual environments, security can be delivered as efficient software defined services decoupled from the physical devices, aggregated and applied precisely where needed
- Dramatically lower costs: Reduce CAPEX by consolidating servers and OPEX by minimising maintenance, power and cooling requirements
- Enable flexible, agile IT service delivery: Anticipate and meet changing business needs more quickly; virtualisation creates a dynamic infrastructure that helps business react more quickly to changing market demands, evolving business conditions, or new customer requirements
- Dependable business continuity: Improved business continuity in the form of high availability and reduced downtime; should a node or server fail, all of its virtual machines can be re-started on another machine, with no downtime or data loss