

Infinistructure™



Engine or Anchor?

An application's infrastructure should be the high-performance engine that drives the business forward, but all too often it's a logistical and financial anchor. Dedicated servers are large, inflexible building blocks, making it difficult to precisely match infrastructure to requirements.

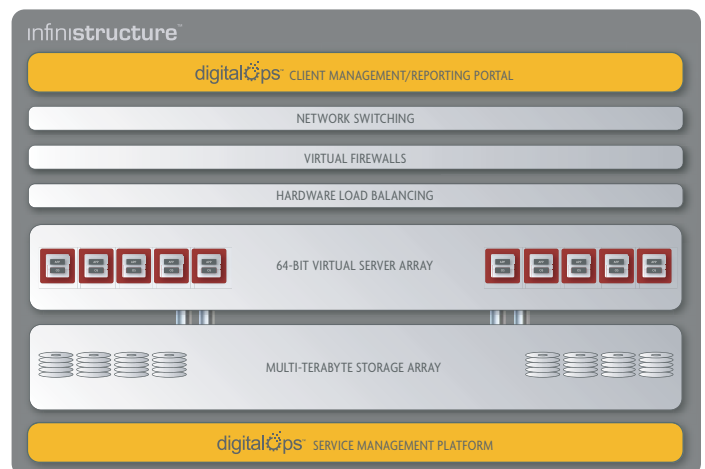
These servers are often under-utilized, tying up capital in needed software licenses, half-empty drives and idle processing capacity. Long deployment times limit your ability to respond rapidly in an on-demand world. And dedicated servers are expensive to replace, leaving you tied to older models while new advances pass you by.

A true utility computing solution should solve both the economic and capacity-on-demand shortcomings of traditional infrastructure, allowing you to pay only for the resources you need while enabling the rapid deployment of new capacity. And it should do all of this without any performance compromise, in a secure, highly available enterprise-class environment.

Terremark's Infinistructure managed utility computing platform meets these challenges with an enterprise-class,

high-performance architecture that brings new levels of flexibility and scalability to your applications.

Working together with strategic technology partners including VMWare, HP, and Cisco, Terremark has designed a managed infrastructure that offers revolutionary levels of flexibility and scalability.



Enterprise-Class Architecture

The foundation of Infinistructure is an enterprise-class 64-bit hardware platform with:

- HP ProLiant server platform
- 250-core 64-bit processing array
- Gigabit networking with hardware load-balancing features
- Total capacity of 35 terabytes of high-performance fiber-attached storage with dynamic provisioning and superior disk performance to server-based storage
- Supports Windows and Linux environments

Complete server isolation, VLAN network partitioning and PCI-compliant firewalls ensure a highly secure environment. The system is managed and administered with Terremark's digitalOps® enterprise systems management platform.

Infinistructure's software layer goes beyond traditional hardware-based horizontal scalability. It's a comprehensive on-demand solution that takes advantage of new breakthroughs in secure virtualization technology. Infinistructure provides a massive, enterprise-class computing grid partitioned into secure virtual servers. Advanced virtualization technology provides a customizable, scalable, fault-tolerant platform for your application, providing on-demand processing, memory, storage and bandwidth.

Virtual servers match the performance and security of dedicated servers, but offer several advantages:

Power & Environmentals: An industry first, Infinistructure virtual servers can be moved across physical devices in real time and with no interruption to the application. This virtually eliminates downtime in case of physical device failure, allowing higher service level agreements than dedicated servers. Virtual servers can also be moved dynamically to ensure consistent performance, and to allow for zero-downtime technology upgrades.

Rapid Deployment: Freed from the constraints of procurement and installation, servers can be rapidly provisioned to meet changing needs. Server cloning technology allows copies of virtual servers to be rapidly deployed into load-balanced web farms to handle increases in user traffic efficiently and cost-effectively.

TomorrowProof™: Infinistructure's TomorrowProof architecture ensures you're always running on the best platform available. As we add new capacity based on the latest server and storage technologies, the system's average CPU speed and overall total performance metrics increase, giving your application continuous and seamless access to new levels of power and performance. Infinistructure allows you to start small and grow as you need to, precisely matching your infrastructure to your business needs, optimizing systems utilization and eliminating wasted investment in unnecessary hardware, software and services costs.

You'll realize substantial savings on the Infinistructure platform, while increasing your ability to dynamically respond to changing business conditions: marketing campaigns, seasonal demand, unforeseen traffic spikes or new applications.

