

# Parallels® Virtuozzo Containers

Datasheet

An OS level server virtualization solution that enables the highest levels of manageability, efficiency and performance.

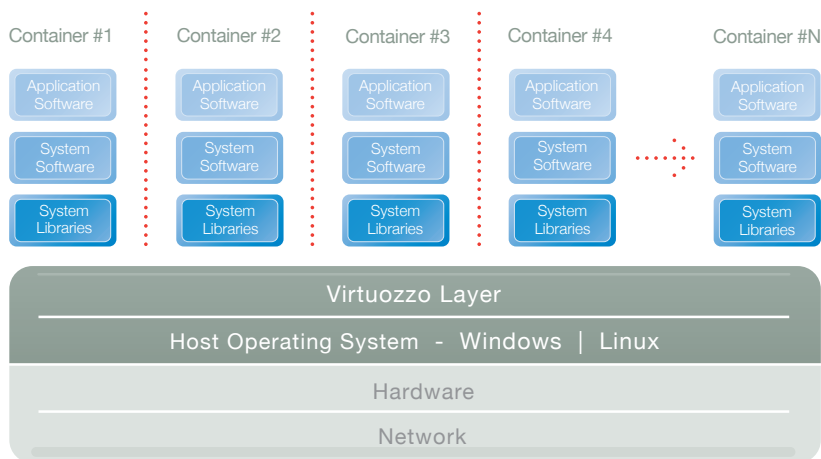
## IT Infrastructure Challenges

Servers are becoming increasingly complex, difficult to manage and inefficient. Computing resources continue to increase in power, but organizations are unable to fully utilize them in single application deployments or easily change resource assignments when necessary.

At the root of the problem is uncontrolled server sprawl, but organizations that turned to hardware virtualization have now created OS sprawl. While hardware costs remain considerable, software and management still consume most of the IT budget. Daily management and operations are daunting, and adding in business continuity requirements, the costs and complexity are overwhelming. To compound the problem, few tools provide the management and automation to ease this burden.

## Parallels Virtuozzo Containers: A Different Approach

Parallels Virtuozzo Containers empowers organizations to meet the increasing demands on their IT infrastructure. By creating isolated containers on a single physical server and OS instance, organizations can utilize hardware, software, data center and management efforts with maximum efficiency and performance.



Parallels Virtuozzo Containers' user-friendly management tools and higher efficiency make it the best solution for organizations wanting to contain their IT infrastructure and maximize their resource utilization. Its complete set of management tools and unique architecture make it the perfect solution for easily maintaining, monitoring and managing virtualized server resources for consolidation and business continuity configurations. With the highest consolidation ratios of any server virtualization technology, Parallels Virtuozzo Containers maximizes organizations' hardware, software and administration investments.

## The Ideal Virtualization Solution

Parallels Virtuozzo Containers creates isolated containers on a single physical server and OS instance.

## A Solid Foundation

*Parallels Virtuozzo Containers has been widely and reliably deployed on more than 10,000 physical servers for more than 5 years.*

**Complete isolation** ensures that all containers are secure and have full functional, fault and performance isolation.

**VeriSign** tested and evaluated for security and isolation.

**Clustering** provides high availability for either the individual container or the entire server.

## The Best Manageability

Parallels Virtuozzo Containers has the lowest management and operations cost.

**Manage a high performance** virtualization solution without learning a new OS.

**Fast Provisioning** enables administrators to create and deploy containers in seconds.

**Dynamic resource management** allows real-time changes of key system resources such as CPU, memory, network, disk and I/O.

**Eliminate OS sprawl-related problems** by deploying patches and upgrades globally to all containers and across servers.

**Transporter** allows reliable, easy migration from a physical or other VMM server to a Parallels Virtuozzo Container.

**Easily automate** tasks and integrate with existing tools.

## Usage Scenarios and Customer Evidence

### Server and OS Consolidation

Consolidate OSES and servers for easy management, increased agility and to reduce IT costs and complexity.

*"With over 10,000 [containers], we've become one of the largest virtual deployments in the world."*

- Demian Sellfors, CEO (mt) Media Temple

### Business Continuity (HA/DR)

Balancing costs and resources with desired levels of high availability (HA) and disaster recovery (DR) produces a wide range of solutions and requirements. Parallels Virtuozzo Containers enables organizations to make data highly available and quickly recoverable.

*"If our systems do go down, I have the security of knowing that switching to the back-up server will take no time at all and end-users will experience the minimum disruption possible."*

- Steve Dobson, Head of IT, Pharmacy2U

### Software as a Service (SaaS)

Templates allow multiple instances of an application to be quickly deployed across high density IT infrastructures in a matter of hours without application changes.

*"We took our custom application and delivered it using a SaaS model in under an hour."*

- Steve Merkel, Chief Information Officer, Data393

### Green Computing

By providing the highest density of containers, OS virtualization enables organizations to unplug more of their physical servers for the greatest reduction in power and cooling.

*"Virtuozzo's high-density capabilities, combined with great management tools, reduced power and cooling needs."*

- Chris Stucker, Manager of Systems, Networking and Services, AET Films

### Performance Sensitive Workloads

With its "Native Server Architecture", Parallels Virtuozzo Containers can be used to virtualize databases and email servers while maintaining maximum performance.

*"At the end of the week, each developer had the equivalent of a very high-end desktop running Microsoft Office, SQL, Oracle and WebSphere."*

- Nick Gatt, IT Manager, Kalido

### Internal and Commercial Hosting

With its lean architecture and complete security and isolation, it provides a cost-effective, multi-tenant solution with complete toolsets to provision, manage, monitor and update virtual servers and containers.

*"[Parallels] Virtuozzo is very well-designed for ISPs. For our company, for what we want to do, the product is perfect."*

- Julien Ardisson, Chief Technology Officer, Strato AG

### Virtual Desktop Infrastructure

Centralize desktops to provide end users a secure, controlled environment. Easily create, deploy and manage applications in isolated, customizable containers.

*"Cox had an immediate ROI of 300%. The templates and the single copies of software make the configuration really simple to manage."*

- Keith Hubbard, Server Team Manager, Cox Communications

### 3x More Efficient

*Parallels Virtuozzo Containers delivers the most virtual servers per physical server, providing the best return on investment.*

Up to 1,000s of containers per each standard physical server.

Advanced caching to share limited resources effectively.

High Density Partitioning efficiently divides a server into multiple containers while maximizing the server's resources.

### Native Performance

*Ensure that applications operate at their peak performance.*

Full native performance architecture ensures that applications maintain all performance optimizations and run at their highest levels.

High I/O traffic is manageable without throughput degradation.

Links and caches enable faster application and response times.

Each container can use up to the full resources of the server.

Granular resource control enables performance tuning for individual containers.

Learn more at [www.parallels.com](http://www.parallels.com).



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