

# Parallels® Virtuozzo Containers

## Datasheet

Parallels Virtuozzo Containers is the leading virtualization platform used by over 1300 hosting, managed services, and communication providers worldwide.

### Virtuozzo Containers Solutions for Service Providers

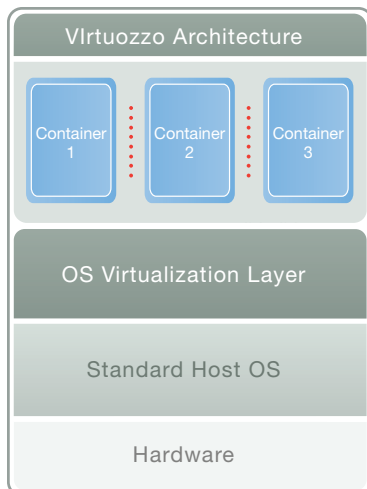
Parallels Virtuozzo Containers provides the best technology for delivering hosted services because it maximizes your revenue per server and reduces your operating expenses through a robust set of management tools.

Parallels Virtuozzo Containers positions you for the future by providing software as a service (SaaS) solutions, virtual appliances, and virtual desktop infrastructures.

### Virtuozzo Containers Drives Service Offerings

Virtuozzo Containers empowers service providers to offer a complete range of hosting services to both customers and reseller partners with the highest level of attainable profitability. By partitioning one OS instance, service providers are able to maximize their rack space by creating multiple isolated virtual containers per physical server that can be sold to customers or resold through a reseller channel. Virtuozzo Containers comes bundled with the Parallels Infrastructure Management (PIM) toolset which allows providers to easily provision and manage virtual containers in the most time efficient manner possible to minimize labor costs.

Providers are able to create new service offerings and offer them to the market in the shortest time possible. With management tool features such as application templating, customer-controlled backup capabilities, and clustering, service providers are able to bundle service offerings that appeal to a variety of customer budgets all with the same fixed cost to the provider. Through the Parallels Open Platform initiative that seamlessly integrates other popular Parallels service provider products such as Plesk Control Panel and Business Automation, service providers can easily add automation to their datacenter to allow for SaaS offerings such as hosted Microsoft Exchange, SharePoint, and CRM applications that provide new revenue streams to Parallels-based providers.



#### Containers

- ▶ Isolated & secure homogeneous OS
- ▶ Contains defined set of resources
- ▶ Lightweight resulting in greater server density

#### OS Virtualization Layer

- ▶ Virtualizes the Host OS-Windows or Linux
- ▶ Manages resource allocation including memory, processor, storage, and I/O

#### Standard Host OS

- ▶ Full functional OS
- ▶ Maintains all application optimizations

### The Virtuozzo Advantage

- Highest density for maximizing revenue per server
- Lowest power consumption for a greener hosting environment
- Integrated management tools designed specifically for service providers
- SaaS delivery and the Parallels ecosystem

### Key Features

- **Isolation** ensures performance is not compromised by run-away applications
  - **Resource** limits can be set by service plan and over-subscribed if required
  - **Virtual appliances** deliver pre-configured environments for rapid deployment, efficient upgrades, and simplified patch management
  - **Application templating** allows creation of new virtual appliances or OS specific templates
  - **Management tools** including P2V, V2V, and backup tools are bundled with Virtuozzo Containers
  - **Integration** with other Parallels service delivery platforms provide automation and billing solutions
  - **Control panels** allow resellers and customers to self-manage their server with role-based security permissions
  - **Centralized management** allows service providers to update and patch virtual containers on multiple servers with one click
  - **Caching and link catalogs** allow sharing of code, memory, and disk to provide fast response
- ### Parallels Open Platform
- Integrates with Parallels Plesk Control Panel
  - Integrates with Parallels Automation products

## Virtuozzo Containers Recommended Uses

Virtuozzo Containers delivers benefits to hosted infrastructures as well as nearly all retail hosting services. Several common use cases are provided below:

|                          |  |
|--------------------------|--|
| <b>Shared Hosting</b>    | <b>Infrastructure Tip.</b> Split your shared customers into groups of isolated environments so a rogue client only impacts a small number of customers instead of an entire server with thousands of clients. Once virtualized, you can easily migrate groups of clients to less crowded servers.  |
| <b>VPS Hosting</b>       | <b>True VPS.</b> VPS hosting provides improved isolation, security, and management above shared hosting services at a lower price point than a dedicated server. Typical configurations include 50-300+ virtual environments per server packaged with a subset of dedicated server services.<br><b>Managed VPS.</b> A managed VPS environment provides browser based management tools for client self-management of simple tasks. Complex tasks are updated by the service provider who can charge a premium for these services.<br><b>Infrastructure Tip.</b> Virtuozzo Containers allows your clients to grow their resources without re-booting their server.   |
| <b>Dedicated Hosting</b> | <b>Virtualized Dedicated Server.</b> Include Virtuozzo Containers with a dedicated server offering so resellers or business clients can configure and manage virtual environments on their server. Management tools simplify the task so non-technical clients can create and maintain their environments.<br><b>Infrastructure Tip.</b> Delivering dedicated servers inside a single VPS allows you to easily upgrade clients to better hardware, provide faster restoration from a hardware failure, and clone machines for rapid server preparation.  |
| <b>SaaS</b>              | <b>SaaS Delivery.</b> Make application delivery a feature of all your dedicated and VPS offerings to increase your average revenue per server. Clients can easily install applications that are packaged inside a Virtuozzo Container template. Parallels Automation tools allow clients to order, pay for, and install applications without calling you.<br><b>Virtual Appliances.</b> Provide clients with pre-configured virtual environments that meet their specific needs. Custom build environments with specific applications to target specific markets and verticals.<br><b>Virtual Desktop Infrastructure (VDI).</b> Provide customers with on-demand desktops that are accessed over the Internet. |

## Ideal for Service Providers

Virtuozzo Containers is the preferred virtualization solution for thousands of service providers who run hundreds of thousands of virtual environments.

### Performance

- Architecture and technology provides near native OS and server performance
- Low I/O overhead ensures performance of I/O intensive applications, like databases and mail servers

### Density

- 10s to 1000s of virtual containers per standard physical server in production depending on desired service plan
- Templating and caching to efficiently share code, memory, disk, and all server resources

### Scalability

- Burstable resources beyond promised service level limits
- Real-time changes in resources

### Command Line Interface

- Automate many tasks and integrate with other tools

### Client Management Tools

- Start, stop, restart, restore, repair and reinstall containers using a browser
- Monitor resources, actions, and processes within a virtual container

### Provider Management Tools

- Single interface for all Linux and Windows servers that offers comprehensive administrative management and monitoring
- Update and patch virtual containers' OS and applications on multiple servers in multiple locations in a single action
- Cross-server functionality including P2V and V2V migration, backup, and recovery

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



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