

Parallels® Virtuozzo Containers

Datasheet

Virtuozzo Containers is an OS level server virtualization solution that enables the highest levels of efficiency and manageability for the enterprise.

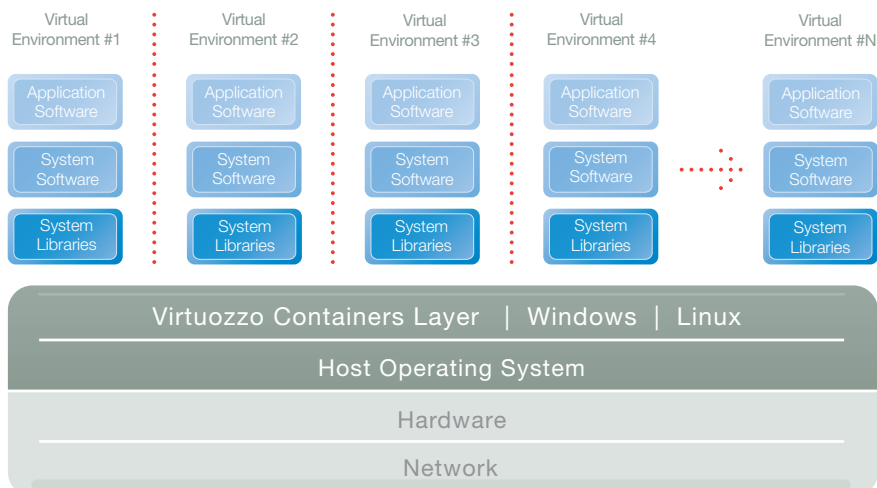
IT Infrastructure Challenges

Servers are becoming increasingly complex to manage and difficult to control. Computing resources continue to increase in power, and organizations are unable to fully utilize them in single application deployments and cannot change computing resource assignments easily when application or business requirements change. At the root of the problem is uncontrolled server sprawl, but organizations that have used hardware virtualization have now created OS sprawl. The daily management and operations functions are daunting, and adding in business continuity requirements, the costs and complexity are overwhelming. While hardware remains a considerable cost component, software and management continue to be the largest cost considerations, and few tools provide the management and automation to ease the burden on IT departments.

Virtuozzo Containers Solution: A Different Virtualization Approach

Virtuozzo Containers empowers IT organizations to meet the increasing demands on IT infrastructure and management. Virtuozzo Containers creates isolated partitions or virtual environments on a single physical server and OS instance to utilize hardware, software, data center and management effort with maximum efficiency. Intelligent partitioning divides a server into as many as hundreds of VEs with full server functionality. Complete isolation ensures that the VEs are secure and have full functional, fault and performance isolation. Dynamic resource allocation of key system resources such as CPU, memory, network, disk and I/O enables near real-time changes.

Virtuozzo Containers's OS virtualization solution has higher efficiency and manageability, making it the best solution for organizations concerned with containing the IT infrastructure and maximizing resource utilization. Virtuozzo Containers's complete set of management tools and unique architecture makes it the perfect solution for easily maintaining, monitoring and managing virtualized server resources for consolidation and business continuity configurations.



Ideal Virtualization Solution

Award-winning technology deployed for 5 years on more than 10,000 physical servers.

Performance

- Architecture and technology provide near native OS and server performance
- High I/O traffic manageable without throughput degradation

Scalability

- Each VE can use up to the entire resources on the server
- High I/O traffic manageable without throughput degradation

Density

- Up to 100's to 1000's of VEs per standard physical server in production
- Templating and caching to share code, memory, disk and other resources efficiently
- Highest density on a server equates to the best return on investment of any virtualization solution

Consolidated OS and Application Management

- Create, update and patch VEs with a single action
- Create multiple VEs yet manage a single OS or application on a server

Ultra Fast and Parallel Operations

- Provision VEs and applications in seconds
- Links and caches for faster responses

Dynamic Resource Allocation

- Detailed resource specification enabling performance tuning
- VE resource maximums and minimums, may be configured to use available server resources
- Near real-time changes in resources

Virtuozzo Containers Solutions

Virtuozzo Containers has been deployed most frequently for the following uses and configurations.

Server and OS Consolidation

Consolidation of the hardware has historically been the first step in server consolidation projects. Virtuozzo Containers takes consolidation a step further by consolidating OSs for easy management and reducing costs and complexity while improving service levels.

Dynamic Workload Management

Application or business requirements in most organizations change daily. Deploying an application used to require a certain amount of planning and commitment to configuration and server placement. With Virtuozzo Containers, workloads in VEs can be easily moved with live migration or resources adjusted in real-time without downtime.

Business Continuity

Ensuring that an application and data are safe and available is a requirement in every IT organization. Balancing the cost and resources required with the desired level of high availability or disaster recovery time produces a range of solutions and requirements. Virtuozzo Containers provides IT organizations with cost effective options for making data highly available and recoverable.

Internal/Commercial Hosting

IT organizations and businesses need to provide a simple, manageable infrastructure for offering hosted applications and data. Virtuozzo Containers is perfect for hosting with its lean architecture and complete security and isolation, it provides a cost effective multi-tenant solution. Virtuozzo Containers and VE administrators have complete toolsets to provision, manage, monitor and update virtual servers and environments.

Development/Testing

Virtuozzo Containers is an effective tool for development and testing organizations. The fast provisioning, cloning, templating, and provisioning workflow options are all tool and technology capabilities that help development and testing organizations deploy and manage many virtual environments quickly and efficiently. The unbeatable high density of Virtuozzo Containers also enables an efficient proving ground for stress testing.

Centralized Desktop Management

Make applications available on servers and accessible to end users to provide a secure, controlled and manageable environment. Applications can be created and deployed in secure virtual environments which prevent viruses from spreading over computers. Applications are centralized for easy updates and ongoing management.

Learn more at www.parallels.com/virtuozzocontainers

Management Tools and Interfaces

Large-scale design: Up to 10,000's of VEs on 1,000s of servers

Browser-based and GUI Administrator Tools: VZCC and VZMC

- Full administrative management and monitoring
- Cross server functionality including migration, VZP2V, backup and recovery
- One interface for all Virtuozzo Containers Linux and Windows servers

Browser-based Customer Tool: VZPP

- Customer self-management portal
- Start, stop, restart, restore, repair and reinstall VE capabilities
- Monitoring resources, actions and processes within a VE

Command Line Interface

- Automate many tasks and integrate with other tools

Large-scale Automation Tools

- Automated server and service provisioning
- Complete resource accounting and chargebacks

Fastest ROI and Unbeatable TCO

- With the highest consolidation ratios of any server virtualization technology, Virtuozzo Containers maximizes hardware, software and administration investments
- Single OS for the fastest and easiest OS provisioning, updating and management
- Common, intuitive interface enables virtual environment management by any level administrator



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