

Virtuozzo is an operating system level server virtualization solution that enables the highest levels of efficiency and manageability for hosting.

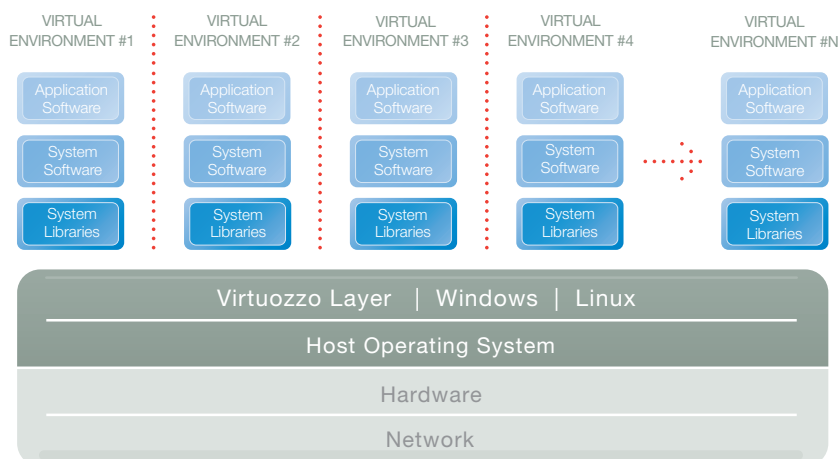
Challenges for Service Providers

The hosting business model continues to be very competitive and fluid. Challenges for hosters include issues such as declining data center space and increasing costs, entry-level hardware that exceeds customer requirements and hardware that becomes obsolete quickly. More importantly, customer acquisition and retention challenges are becoming even more difficult to manage. Market dominators are entering shared hosting and related markets, cost-conscious customers are driving down prices and fringe web-application developers are demanding dynamic and scalable services. The range of customer requirements continues to spread and the traditional shared and dedicated hosting models are becoming less effective.

Virtuozzo Solution

Virtuozzo empowers service providers to offer a complete range of hosting services and manage resources to the highest level of profitability. Virtuozzo creates isolated partitions or virtual environments (VEs) 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 dedicated 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 enable near real-time changes, over-subscription and traffic planning to maximize service profitability and management.

Live migration is a unique capability that supports moving a VE between physical machines without service interruption. An architecture and suite of tools built for mass management and automation of multi-VE and multi-server environments enables any service provider to easily and efficiently manage the virtualized infrastructure. Virtualization is the basis for service providers to compete, but the tools and automation capabilities are what enables the service provider to contain management costs and remain competitive.



Ideal Virtualization Solution for Service Providers

With over 400,000 VEs on over 10,000 Virtuozzo servers at hosting providers worldwide, Virtuozzo is the benchmark virtualization solution.

Performance

- Architecture and technology provides 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

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

Consolidated OS and Application Management

- Manage a single OS or application on a server
- Update and patch VEs on multiple servers in a single action

Ultra Fast and Parallel Operations

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

Scalability

- Detailed resource allocation that enable specific service classifications
- Fair and burstable resources enables customers to use at least the service plan minimum
- Near real-time changes in resources

Virtuozzo Powered Service Offerings and Configurations

Service providers are using Virtuozzo to create a wide range of services and internal infrastructure configurations.

TrueVPS

TrueVPS was the original virtualized service, providing a level of isolation, security and management above shared services. Typical configurations include 50-300 or more VEs per server packaged with a subset of low-end dedicated server services. The TrueVPS service plan usually includes some basic resource guarantees such as disk space along with root access.

Dynamic Server / Dynamic Dedicated Server

Dynamic Servers are dedicated-like virtualized services which are packaged and positioned as a better alternative to dedicated and sold at somewhat similar prices. Dedicated services lack management tools for both service providers and customers, making the Dynamic Server an attractive alternative. Services range from a single VE on a server to 50 VEs on a server.

Split-Dedicated

The Split-Dedicated server is an ideal service to offer to resellers or customers that would like to configure VEs. A server is provisioned with Virtuozzo then the reseller or customer is able to partition and manage the server or portion of server depending on service offerings or desired implementation. Split-dedicated servers house 5-100 VEs depending on the sizes and types of resident services.

Managed VPS / Advanced Shared

The Managed VPS service provides a fully managed service to customers, bundled with a control panel for simple management by the customer. The customer does not have root access and the service provider is able to charge a premium for managing and updating the software in the VE. Any number of VEs may reside on the server according to the level of service and resources in the plan. The Managed VPS is attractive to customers wanting the flexibility of a dedicated server without the management responsibility.

Split-Shared

The split-shared service is an internal service provider configuration that places shared hosting accounts or services in different VEs. Shared hosting is easily the most profitable service model, but it is fraught with risk without isolation between customers; a single event could take down 1000s of shared customers who value uptime and switch service providers often. Splitting shared customers into separate VEs limits risks without adding management or processing overhead.

Virtual Infrastructure

Service providers are now recognizing the benefit of placing the entire infrastructure in VEs. Isolate and secure services, provide full remote management, make any application hardware independent and easily upgradeable, leverage cloning for upgrade and patch management and use a consistent toolset for backups, recovery, monitoring and all management operations.

Learn more at www.swsoft.com/virtuozzo

Management Tools and Interfaces

Large-scale design: 10,000s 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 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

- Integration with PEM or HSPcomplete
- Automated server and service provisioning
- Complete, detailed billing packages

Virtuozzo for Service Providers

- Leveraging the OPEN FUSION initiative, Virtuozzo integrates better with other hosting software products including the Plesk control panel
- Direct cost and cash flow savings by better utilizing server resources
- Zero cost provisioning in seconds and potentially fully automated
- Customer self-management



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