

Virtuozzo 3.0 for Linux Service Pack 1

Release Notes

Introduction

Virtuozzo Linux 3.0 Service Pack 1 is a cumulative update for Virtuozzo Linux version 3.0, which delivers a number of new major features and improvements.

New Features

Red Hat Enterprise Linux 4.0 Kernel Support

In this update, Virtuozzo supports Red Hat Enterprise Linux 4.0 kernel, based on the 2.6.9 mainstream Linux kernel. This release provides a higher level of stability and security and increases the range of the compatible hardware and software.

Ethernet Layer Network Adapter Support

Supplementing the existing IP routing based adapter option, virtual environments now may use an Ethernet (packet switching based) network adapter, bridged to a selected physical network card. Virtual environments may run any Ethernet dependant application or service, including network load-balancing applications.

Note that in this update additional management functionality is available via command line only.

VLAN Support

This release supports VE network adapters bridging with VLAN adapters. Virtuozzo administrators can create virtual networking infrastructure meeting strict security requirements with complete network traffic isolation.

Virtual CPU Management

System administrators may assign any required number of Virtual CPUs up to the number of physical CPUs available. The VE will only see the specified CPU for licensing and intuitive power management purposes.

Note that in this update additional management functionality is available via command line only.

Virtualized VE Memory Information

Memory information shown within a VE now reflects memory limits applied to a VE. In Service Pack 1, this is also true for the UBC resource management model.

Linux File Attributes Support

Virtuozzo file system (VZFS) now supports Linux immutable file attributes - those manageable via the `chattr` utility. Applications running in VEs now may use file attribute dependant features.

VE Names and Description

Virtuozzo command line tools now allow you use any logical VE name and attach notes or a description to a VE. Together with GUI tools support scheduled for the next major release, that support makes Virtuozzo management easier and more user-friendly.

VE Bind Mounts Configuration

Per-VE specific mount points now may be specified in the VE configuration file. This popular security enhancement, commonly used for creating special `/tmp` directories with non-executable flags set, is now available out of the box and fully compatible with Virtuozzo management features: backup, reinstall, online migration and others.

Note that in this update additional management functionality is available via command line only.

VE Reinstall Customization

A reinstalled VE typically loses its data. Service Pack 1 offers a standardized interface to hook into the reinstallation process and back up/restore the data or perform other required customization.

Virtuozzo Disk Storage Mount

Virtuozzo disk storage (`/vz` typically) now is mounted via Virtuozzo service startup scripts instead of `/etc/fstab`. This ensures proper mount options for optimal performance, and allows remote server connection for troubleshooting purposes even when the `/vz` partition has errors that can not be recovered automatically and require administrator's attention.