

Virtuozzo 3.5.1 for Windows Service Pack 1

Release Notes

Introduction

Virtuozzo 3.5.1 for Windows Service Pack 1 is a cumulative update for Virtuozzo 3.5.1 for Windows. It delivers new, improved virtualization architecture, advanced networking features and a wider set of supported applications.

New Features

Improved Virtualization Architecture

Improved architecture – this important architecture revision deploys a deeper kernel virtualization layer and dramatically improves stability and scalability. The architecture also supports a wider set of applications and more flexibility for management, supporting common remote management tools to manage virtual environments.

Improved CPU Management

In addition to the virtualization architecture improvements, Service Pack 1 also includes a new CPU scheduler on both 32bit and 64bit platforms.

Improved CPU scheduling provides better isolation and enables strict VE-based CPU upper limits

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

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 tools 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.

Windows 2003 Network Load Balancing (NLB) Support

One of the advantages brought by the Ethernet layer network device support is a full support for applications dependant on low level networking features. For example, the Windows 2003 NLB clustering feature has been tested and fully supported in this update.

Teamed Network Adapters Support

Virtuozzo networking infrastructure now fully supports teamed physical network adapters.

Teamed networking mode enables better networking performance and service availability.

Full Console Virtualization

One of the benefits of the improved virtualization architecture is a complete console session virtualization. As a result, each virtual environment now has its own Terminal Server; Administrative/Application mode may be switched using the vzctl management tool. Virtuozzo VEs also now support console dependant applications such as VNC, RAdmin, DameWare and others.

Citrix Presentation Server Support

Previously special host and VE configurations were required to run and support Citrix Presentation Server due to its interaction with Terminal Server.

Administrators may now install Citrix Presentation Server directly in a VE without any special or additional configuration.

Additional Command Line Tools Features

Reflecting new functionality available, Virtuozzo command line utilities have additional management capabilities including setting a VE CPU upper limit, configuring a VE Ethernet adapter, configuring a terminal server mode and accessing a licensing server.