

Parallels Virtuozzo Containers 4.0 for Windows Readme

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This document provides the first-priority information on Parallels Virtuozzo Containers 4.0 for Windows and supplements the included documentation.

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1. LICENSING

You can obtain a license for Parallels Virtuozzo Containers 4.0 for Windows in one of the following ways:

- request a license from a Parallels sales representative;
- visit the <http://www.parallels.com/download/pvc46> website, fill up a special registration form, and get a free evaluation license.

The Virtuozzo Server license is needed to start using the Virtuozzo Containers 4.0 software and Virtuozzo Tools (Parallels Management Console, Parallels Infrastructure Manager, and Parallels Power Panel).

2. SYSTEM REQUIREMENTS

Parallels Virtuozzo Containers 4.0 for Windows comprises the Parallels Virtuozzo virtualization engine for a Windows server and the graphical user interface for its managing represented by Parallels Management Console. Virtuozzo systems can also be managed via a standard web browser with the help of Parallels Infrastructure Manager or Parallels Power Panel.

The hardware and software requirements for Parallels Virtuozzo Containers 4.0 for Windows are the following:

- **Platform:**
Any x86 platform that is supported by Windows 2003 Server (Pentium, AMD, and the like). x86-64 and IA64 platforms are also supported.
- **Memory:**
1 GB recommended. The required amount depends on the total number of Containers you wish to run on the Node (minimum 50 MB per Container).

- **Hard Disk Space:**
20 GB or more free disk space. The required amount depends on the size of the software to be installed inside Containers.
 - **Operating System:**
32-bit versions of Windows Server 2003:
 - * Standard or Enterprise Edition of Windows Server 2003 Service Pack 1 with or without R2: US English, German, French, Korean, Spanish, Traditional Chinese, Simplified Chinese, or Japanese;
 - * Standard or Enterprise Edition of Windows Server 2003 Service Pack 2 with or without R2: US English, German, French, Italian, Korean, Spanish, Traditional Chinese, Simplified Chinese, or Japanese;
 - * Datacenter Edition of Windows Server 2003 Service Pack 1 with or without R2 (US English);
 - * Datacenter Edition of Windows Server 2003 Service Pack 2 with or without R2 (US English);*x86-64-bit versions of Windows Server 2003:*
 - * Standard or Enterprise Edition of Windows Server 2003 x64 Service Pack 1 with or without R2 (US English or Japanese);
 - * Standard or Enterprise Edition of Windows Server 2003 x64 Service Pack 2 with or without R2 (US English or Japanese);
 - * Datacenter Edition of Windows Server 2003 x64 Datacenter Edition Service Pack 1 with or without R2 (US English);
 - * Datacenter Edition of Windows Server 2003 x64 Datacenter Edition Service Pack 1 with or without R2 (US English);
 - * Datacenter Edition of Windows Server 2003 x64 with Service Pack 2 (Japanese);*IA64-bit versions of Windows Server 2003:*
 - * Standard or Enterprise Edition of Windows Server 2003 IA64 with Service Pack 2 (US English, German, French, or Japanese);*32-bit English version of Windows Small Business Server 2003 Service Pack 1*
- The operating system must be activated before the Virtuozzo Containers 4.0 installation!**

The hardware and software requirements for Parallels Management Console, Parallels Infrastructure Manager, and Parallels Power Panel include the following:

- **Platform:**
450 MHz or higher Intel Pentium-compatible CPU.
- **Memory:**
256 MB recommended. The required amount depends on the number of Hardware Nodes to be administered (minimum 5 MB per Hardware Node).
- **Hard Disk Space:**
About 500 MB.
- **Operating System:**
Microsoft Windows 2000, Microsoft Windows XP or Microsoft Windows Server 2003.
- **Browsers:**
 - * Internet Explorer 6.0 and above, or

- * Mozilla 1.7 and above, or
- * Firefox 1.0 and above.

3. INSTALLING PARALLELS VIRTUOZZO CONTAINERS 4.0

Complete installation instructions on how to set up Parallels Virtuozzo Containers 4.0 for Windows on a dedicated server is provided in the **Parallels Virtuozzo Containers 4.0 for Windows Installation Guide** included in the current distribution.

While following the installation instructions, please bear in mind the following:

- The Windows Server 2003 OS installed on the Hardware Node must be activated.
- The Virtuozzo Containers data folder (C:\vz, by default) cannot be a mount point, i.e. an external disk partition or network drive cannot be mounted to this directory.
- The Virtuozzo Containers data folder (C:\vz, by default) cannot be located on a network drive.
- While adding the Windows components to your system during the Virtuozzo Containers 4.0 installation, you should use the same Windows 2003 Server distribution kit as the one installed on your Node.
- After installing Virtuozzo Containers 4.0, do not remove any of the standard Windows components from the Hardware Node (e.g. Internet Information Services). Deleting an installed component might cause the corresponding application inside your Containers to malfunction. You can disable the unnecessary Windows components on the Node instead.

4. STARTING TO WORK IN PARALLELS VIRTUOZZO CONTAINERS 4.0

Upon the installation completion, you can start managing the Virtuozzo Containers 4.0 software in one of the following ways:

- Using Parallels Infrastructure Manager. To log in to your Hardware Node thru Infrastructure Manager, click **Programs --> Parallels --> Virtuozzo Tools --> Parallels Infrastructure Manager Launcher** on the Windows **Start** menu and, in the displayed window, click **Connect**.
- Using Parallels Management Console. To log in to your Hardware Node thru Management Console, click **Programs --> Parallels --> Virtuozzo Tools --> Parallels Management Console** on the Windows **Start** menu.

5. UPGRADING TO PARALLELS VIRTUOZZO CONTAINERS 4.0

The process of upgrading the Virtuozzo Containers software from 3.5.1 and 3.5.1 Service Pack 1 to 4.0 does differ from that of installing Virtuozzo Containers 4.0 on a fresh version of Windows Server 2003 only slightly and is described in the **Parallels Virtuozzo Containers 4.0 for Windows Installation Guide** and the *Upgrade.txt* file.

6.. DISTRIBUTION CONTENTS

Following are the names and descriptions of the folders and files included in the Parallels Virtuozzo Containers 4.0 for Windows package.

- a) *x86* directory: this folder contains the files for the x86 platform:
- *virtuozzo4.0_x86.exe*
the Virtuozzo Containers 4.0 setup file
 - *VZTools_x86.ex_*
the Virtuozzo Tools 4.0 package containing the components necessary to manage the Virtuozzo Containers software on your server
 - *msde_x86.ex_*
the MSDE (Microsoft SQL Server Desktop Engine) application template
 - *w2k3de_SP1_x86.ex_*
the Virtuozzo OS template to be installed on the German version of Windows Server 2003 Service Pack 1 for creating Containers running this system
 - *w2k3de_SP2_x86.ex_*
the Virtuozzo OS template to be installed on the German version of Windows Server 2003 Service Pack 2 for creating Containers running this system
 - *w2k3de_x86_R2.mui*
the Virtuozzo OS template to be installed on the German version of Windows Server 2003 R2 for creating Containers running this system
 - *w2k3en_SP1_x86.ex_*
the Virtuozzo OS template to be installed on the English version of Windows Server 2003 Service Pack 1 for creating Containers running this system
 - *w2k3en_SP1_x86_Datacenter.ex_*
the Virtuozzo OS template to be installed on the English version of Windows Server 2003 Service Pack 1, Datacenter Edition, for creating Containers running this system
 - *w2k3en_SP2_x86.ex_*
the Virtuozzo OS template to be installed on the English version of Windows Server 2003 Service Pack 2 for creating Containers running this system
 - *w2k3en_SP2_x86_Datacenter.ex_*
the Virtuozzo OS template to be installed on the English version of Windows Server 2003 Service Pack 2, Datacenter Edition, for creating Containers running this system
 - *w2k3en_x86_R2.mui*
the Virtuozzo OS template to be installed on the English version of Windows Server 2003 R2 for creating Containers running this system
 - *w2k3en_x86_R2_Datacenter.mui*
the Virtuozzo OS template to be installed on the English version of Windows Server 2003 R2, Datacenter Edition, for creating Containers running this system
 - *w2k3es_SP1_x86.ex_*
the Virtuozzo OS template to be installed on the Spanish version of Windows Server 2003 Service Pack 1 for creating Containers running this system
 - *w2k3es_SP2_x86.ex_*
the Virtuozzo OS template to be installed on the Spanish version of Windows Server 2003 Service Pack 2 for creating Containers running this system
 - *w2k3es_x86_R2.mui*
the Virtuozzo OS template to be installed on the Spanish version of Windows Server 2003 R2 for creating Containers running this system

- *w2k3fr_SP1_x86.ex_*
the Virtuozzo OS template to be installed on the French version of Windows Server 2003 Service Pack 1 for creating Containers running this system
- *w2k3fr_SP2_x86.ex_*
the Virtuozzo OS template to be installed on the French version of Windows Server 2003 Service Pack 2 for creating Containers running this system
- *w2k3fr_x86_R2.mui*
the Virtuozzo OS template to be installed on the French version of Windows Server 2003 R2 for creating Containers running this system
- *w2k3it_SP2_x86.ex_*
the Virtuozzo OS template to be installed on the Italian version of Windows Server 2003 Service Pack 2 for creating Containers running this system
- *w2k3ja_SP1_x86.ex_*
the Virtuozzo OS template to be installed on the Japanese version of Windows Server 2003 Service Pack 1 for creating Containers running this system
- *w2k3ja_SP2_x86.ex_*
the Virtuozzo OS template to be installed on the Japanese version of Windows Server 2003 Service Pack 2 for creating Containers running this system
- *w2k3ja_x86_R2.mui*
the Virtuozzo OS template to be installed on the Japanese version of Windows Server 2003 R2 for creating Containers running this system
- *w2k3ko_SP1_x86.ex_*
the Virtuozzo OS template to be installed on the Korean version of Windows Server 2003 Service Pack 1 for creating Containers running this system
- *w2k3ko_SP2_x86.ex_*
the Virtuozzo OS template to be installed on the Korean version of Windows Server 2003 Service Pack 2 for creating Containers running this system
- *w2k3ko_x86_R2.mui*
the Virtuozzo OS template to be installed on the Korean version of Windows Server 2003 R2 for creating Containers running this system
- *w2k3sc_SP1_x86.ex_*
the Virtuozzo OS template to be installed on the Simplified Chinese version of Windows Server 2003 Service Pack 1 for creating Containers running this system
- *w2k3sc_SP2_x86.ex_*
the Virtuozzo OS template to be installed on the Simplified Chinese version of Windows Server 2003 Service Pack 2 for creating Containers running this system
- *w2k3sc_x86_R2.mui*
the Virtuozzo OS template to be installed on the Simplified Chinese version of Windows Server 2003 R2 for creating Containers running this system
- *w2k3tc_SP1_x86.ex_*
the Virtuozzo OS template to be installed on the Traditional Chinese version of Windows Server 2003 Service Pack 1 for creating Containers running this system
- *w2k3tc_SP2_x86.ex_*
the Virtuozzo OS template to be installed on the Traditional Chinese version of Windows Server 2003 Service Pack 2 for creating Containers running this system
- *w2k3tc_x86_R2.mui*
the Virtuozzo OS template to be installed on the Traditional Chinese version of Windows Server 2003 R2 for creating Containers running this system
- *Readme.txt*
the file containing brief instructions on how to proceed with the Virtuozzo Containers 4.0 installation

b) *x64* directory: this folder contains files for the x86-64 platform:

- *virtuozzo4.0_x64.exe*
the Virtuozzo Containers 4.0 setup file
- *VZTools_x64.ex_*
the Virtuozzo Tools 4.0 package, containing the components necessary to run the Virtuozzo Containers software on your server, to be installed on systems running Windows Server 2003 x64
- *msde_x64.ex_*
the MSDE (Microsoft SQL Server Desktop Engine) application template to be installed on systems running Windows Server 2003 x64
- *w2k3de_x64.mui*
the Virtuozzo OS MUI template to be installed on the Windows Server 2003 x64 MUI for creating Containers running the German version of Windows Server 2003 x64
- *w2k3en_SP1_x64.ex_*
the Virtuozzo OS template to be installed on the English version of Windows Server 2003 x64 Service Pack 1 for creating Containers running this system
- *w2k3en_SP2_x64.ex_*
the Virtuozzo OS template to be installed on the English version of Windows Server 2003 x64 Service Pack 2 for creating Containers running this system
- *w2k3en_SP1_x64_DataCenter.ex_*
the Virtuozzo OS template to be installed on the English version of Windows Server 2003 x64 Service Pack 1, Datacenter Edition, for creating Containers running this system
- *w2k3en_SP2_x64_Datacenter.ex_*
the Virtuozzo OS template to be installed on the English version of Windows Server 2003 x64 Service Pack 2, Datacenter Edition, for creating Containers running this system
- *w2k3en_x64_R2.mui*
the Virtuozzo OS template to be installed on the English version of Windows Server 2003 x64 R2 for creating Containers running this system
- *w2k3en_x64_R2_Datacenter.mui*
the Virtuozzo OS template to be installed on the English version of Windows Server 2003 x64 R2, Datacenter Edition, for creating Containers running this system
- *w2k3es_x64.mui*
the Virtuozzo OS MUI template to be installed on the Windows Server 2003 x64 MUI for creating Containers running the Spanish version of Windows Server 2003 x64
- *w2k3fr_x64.mui*
the Virtuozzo OS MUI template to be installed on the Windows Server 2003 x64 MUI for creating Containers running the French version of Windows Server 2003 x64
- *w2k3ja_SP1_x64.ex_*
the Virtuozzo OS template to be installed on the Japanese version of Windows Server 2003 x64 Service Pack 1 for creating Containers running this system
- *w2k3ja_SP2_x64.ex_*
the Virtuozzo OS template to be installed on the Japanese version of Windows Server 2003 x64 Service Pack 2 for creating Containers running this system
- *w2k3ja_SP2_x64_Datacenter.ex_*
the Virtuozzo OS template to be installed on the Japanese version of Windows Server 2003 x64 Service Pack 2, Datacenter Edition, for creating Containers running this system
- *w2k3ja_x64_R2.mui*
the Virtuozzo OS template to be installed on the Japanese version of Windows Server 2003 x64 R2 for creating Containers running this system
- *w2k3ko_x64.mui*
the Virtuozzo OS MUI template to be installed on the Windows Server 2003 x64 MUI for creating Containers running the Korean version of Windows Server 2003 x64

- *w2k3sc_x64.mui*
the Virtuozzo OS MUI template to be installed on the Windows Server 2003 x64 MUI for creating Containers running the Simplified Chinese version of Windows Server 2003 x64
 - *w2k3tc_x64.mui*
the Virtuozzo OS MUI template to be installed on the Windows Server 2003 x64 MUI for creating Containers running the Traditional Chinese version of Windows Server 2003 x64
 - *Readme.txt*
the file containing brief instructions on how to proceed with the Virtuozzo Containers 4.0 installation
- c) *ia64* directory: this folder contains files for the IA64 platform:
- *virtuozzo4.0_IA64.exe*
the Virtuozzo Containers 4.0 setup file
 - *VZTools_IA64.ex_*
the Virtuozzo Tools 4.0 package, containing the components necessary to run the Virtuozzo Containers software on your server, to be installed on systems running Windows Server 2003 IA64
 - *w2k3de_SP2_IA64.ex_*
the Virtuozzo OS template to be installed on the German version of Windows Server IA64 Service Pack 2 for creating Containers running this system
 - *w2k3en_SP2_IA64.ex_*
the Virtuozzo OS template to be installed on the English version of Windows Server IA64 Service Pack 2 for creating Containers running this system
 - *w2k3fr_SP2_IA64.ex_*
the Virtuozzo OS template to be installed on the French version of Windows Server IA64 Service Pack 2 for creating Containers running this system
 - *w2k3ja_SP2_IA64.ex_*
the Virtuozzo OS template to be installed on the Japanese version of Windows Server IA64 Service Pack 2 for creating Containers running this system
 - *Readme.txt*
the file containing brief instructions on how to proceed with the Virtuozzo Containers 4.0 installation
- d) *Readme.txt*
the file containing brief instructions on how to proceed with the Virtuozzo Containers 4.0 installation

7. FURTHER READING

In addition to this **README**, there are a number of other resources shipped with Virtuozzo which can help you use the product more effectively. These resources include:

RELEASE-NOTES

This document describes the new features of the Parallels Virtuozzo Containers 4.0 release and important changes since the previous one.

UPGRADE

This document provides information on how to upgrade previous versions of SWsoft Virtuozzo to Parallels Virtuozzo Containers 4.0.

MANUALS:

PARALLELS VIRTUOZZO CONTAINERS 4.0 EVALUATION GUIDE

This guide is destined to introduce you to the main features of Parallels Virtuozzo Containers 4.0 and to its underlying technology, to help you set up an environment for evaluating the Virtuozzo Containers major features, and to suggest the relevant procedures for this evaluation.

GETTING STARTED WITH PARALLELS VIRTUOZZO CONTAINERS 4.0 FOR WINDOWS

This guide provides brief instructions on how to install and run the Virtuozzo Containers 4.0 software on your server. It also explains the basics of working with Containers - how to create a Container, start/stop it, install additional software in it, and the like.

PARALLELS VIRTUOZZO CONTAINERS 4.0 FOR WINDOWS INSTALLATION GUIDE

This guide provides exhaustive information on the process of installing, configuring, and deploying your Virtuozzo system. As distinct from the **Getting Started With Parallels Virtuozzo Containers 4.0 for Windows** guide, it contains a more detailed description of all the operations needed to install and set Virtuozzo 4.0 to work. Besides, it does not include the description of any VE-related operations.

PARALLELS VIRTUOZZO CONTAINERS 4.0 FOR WINDOWS USER'S GUIDE

This guide provides comprehensive information on Parallels Virtuozzo Containers 4.0 covering the necessary theoretical conceptions as well as all practical aspects of working with the Virtuozzo Containers software. However, it does not deal with the process of installing and configuring your Virtuozzo Containers system.

PARALLELS VIRTUOZZO CONTAINERS 4.0 FOR WINDOWS REFERENCE GUIDE

This guide is a complete reference on all Virtuozzo Containers configuration files and Hardware Node command-line utilities.

HELP SYSTEMS:

PARALLELS MANAGEMENT CONSOLE 4.0 HELP

This help system provides detailed information on Parallels Management Console - a graphical user interface tool for managing Hardware Nodes and their Containers.

PARALLELS INFRASTRUCTURE MANAGER 4.0 ONLINE HELP

This help system shows you how to work with Parallels Infrastructure Manager - a tool providing you with the ability to manage Hardware Nodes and their Containers with the help of a standard Web browser on any platform.

PARALLELS POWER PANEL 4.0 ONLINE HELP

This help system deals with Parallels Power Panel - a means for administering individual Containers thru a common Web browser on any platform.

All the Virtuozzo Containers documentation is available online at <http://www.parallels.com/products/virtuozzo4/docs>. You can also find it after the Virtuozzo Containers 4.0 installation under **Start --> Programs --> Parallels --> Parallels Virtuozzo Containers --> Parallels Virtuozzo Containers Guides**.