



Parallels Virtual Automation 6.0 Readme

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About This Document

This document provides the first-priority information on Parallels Virtual Automation 6.0 and supplements the included documentation.

Distribution Contents

The following components are included in the Parallels Virtual Automation 6.0 distribution:

- **PVA Management Server component.** This component ensures communication between slave physical servers and their virtual environments.
- **PVA Agent for Parallels Server component.** This component ensures interaction between the physical server it is installed on, the Master Server, and your client computer. Without this component a Parallels Server Bare Metal or Parallels Cloud Server physical server cannot be registered in the system.
- **PVA Agent for Virtuozzo component.** This component ensures interaction between the physical server it is installed on, the Master Server, and your client physical computer. Without this component a physical server cannot be registered in the system.
- **PVA Power Panel application.** An auxiliary tool for managing single virtual machines or single Containers via a standard Web browser. It can be installed only along with the PVA Agent component.
- **Documentation bundle.** The bundle contains Parallels Virtual Automation 6.0 documentation.

Licensing

Parallels Virtual Automation 6.0 is a management tool for Parallels virtualization products and is distributed without a license. Nevertheless, a valid license is needed for the Parallels product being managed:

- Servers running Parallels Virtuozzo Containers require licenses to create and work with Containers.
- Servers running Parallels Server Bare Metal or Parallels Cloud Server require licenses to create and work with virtual machines and Containers.

Software Requirements

Before starting to deploy Parallels Virtual Automation, make sure your computers meet the requirements below.

Clients and Supported Web Browsers

If a computer serves as a Client Server, it should have a supported Web-browser client:

- Internet Explorer 8.x or 9.x,
- Firefox 16.x,
- Safari 5.x or newer,
- Chrome 22.x or newer.

Although other browsers will most likely work, only those listed above have been extensively tested for compatibility with Parallels Virtual Automation 6.0.

If a Windows or Linux-based computer serves as a Slave Server where virtual environments will be stored and managed, then Parallels Virtual Automation will call for more complex requirements, as the creation and management of Containers and virtual machines demand more complex software resources. So, in choosing an appropriate Windows and Linux-based computer, you should be guided by the Parallels Virtuozzo Containers system requirements. For more detailed information on the requirements, see **Parallels Virtuozzo Containers for Linux** and **Parallels Virtuozzo Containers for Windows** user guides.

A server with Parallels Server Bare Metal or Parallels Cloud Server can also serve as a Slave Server. The server should comply with the system requirements of the respective Parallels product. This ensures that all the necessary resources for creating and managing virtual machines are preserved.

Supported Virtualization Products

The Parallels Virtual Automation 6.0 Management Server component can be used to manage servers running Parallels Virtuozzo Containers 4.0/4.6/4.7 for Linux, Parallels Virtuozzo Containers 4.0/4.5/4.6 for Windows, Parallels Server Bare Metal 4/5.0, and Parallels Cloud Server 6.0.

The Parallels Virtual Automation 6.0 Agent component can be installed on Parallels Virtuozzo Containers 4.7 for Linux, Parallels Server Bare Metal 5.0, and Parallels Cloud Server 6.0.

Supported Operating Systems for Master Servers

If a Windows-based computer serves as a Master Server, it should be free from any software virtualization technology and can have one of the following operating systems:

- Windows Server 2003 x64 Service Pack 2
- Windows Server 2008 R2

If a Linux-based computer serves as a Master Server, it should be a physical server without any software virtualization technology running x64 or i386 versions of

- CentOS 5.x or 6.x
- RHEL 5.x or 6.x

Master servers (management nodes) can be based on Containers created with Parallels Virtuozzo Containers for Linux or Windows, Parallels Server Bare Metal or Parallels Cloud Server. To create such a Master Server, you should first create a Container and then start the PVA Management Server component installation there. Linux Containers should be created from the **ve-vswap.2048MB.conf-sample** template, while the Windows Containers need no special template to be created.

Note: At the moment, Parallels Virtual Automation 6.0 doesn't support Security Enhanced (SE) Linux, so make sure its working mode is set to Permissive before trying to install the product. To set the SE Linux mode to Permissive, enter the following command: `/usr/bin/setenforce Permissive`.

Hardware Requirements

If a Windows-based, Linux-based, or bare metal computer serves as a Master Server, there are no special requirements for it. However, below is the list of the basic hardware requirements you can use as a checklist:

- Intel Celeron, Pentium III, Pentium 4, Xeon, or AMD Athlon CPU
- at least 1 GB of RAM
- hard drive with at least 15 GB of free disk space
- network card

If a Windows-based, Linux-based, or bare metal computer serves as a Slave Server where virtual environments will be stored and managed, then Parallels Virtual Automation will call for more complex hardware. The general considerations regarding the configuration of your physical servers could be as follows:

- **CPUs.** The more virtual environments you plan to run simultaneously, the more CPUs you need.
- **Memory.** The more memory you have, the more virtual environments you can run. The exact figure depends on the number and nature of applications you are planning to run in your virtual environments.
- **Disk space.** Each virtual environment occupies 40-150 MB of hard disk space for system files in addition to the user data inside the virtual environment (for example, web site content). You should consider it when planning disk partitioning and the number of virtual environments to run.
- **Virtualization support.** Intel VT-x or AMD-V hardware virtualization technology support.

For detailed information on the requirements for the computer, see **Parallels Server Administration Guide**, **Parallels Virtuozzo Containers for Linux** and **Parallels Virtuozzo Containers for Windows** user guides.

Installing Parallels Virtual Automation 6.0

To install Parallels Virtual Automation 6.0:

1. Go to the directory where the Parallels Virtual Automation 6.0 installation files are stored and start the installation.
2. Select the Parallels Virtual Automation 6.0 components which you are going to install on the target physical servers.
3. Install the chosen components on your physical servers.

Full installation instructions on how to set up Parallels Virtual Automation 6.0 on a physical server are provided in **Parallels Virtual Automation Installation Guides for Linux/Bare Metal or Windows** included in the current distribution.

Removing Parallels Virtual Automation 6.0

To uninstall Parallels Virtual Automation 6.0 from your physical server, go to the directory where the installation files are stored and start the Parallels Virtual Automation uninstallation.

Full instructions on how to uninstall Parallels Virtual Automation 6.0 from physical servers can be found in **Parallels Virtual Automation Installation Guides for Linux/Bare Metal or Windows** included in the current distribution.

More Resources

In addition to this README, there are a number of other resources shipped with Parallels Virtual Automation 6.0 which can help you use the product more effectively. These resources include:

Parallels Virtual Automation Administrator's Guide

This guide is destined to introduce you to the main features of Parallels Virtual Automation 6.0. It contains comprehensive information on all the necessary theoretical conceptions and all practical aspects of working with Parallels Virtual Automation functionality, physical servers and virtual environments. This guide does not include information on installing Parallels Virtual Automation components.

Getting Started With Parallels Virtual Automation Guide

This guide provides brief instructions on how to install and run Parallels Virtual Automation 6.0 software on your server. It also explains the basics of working with physical servers, Containers and virtual machines: how to register a server, to create and manage a virtual environment, and the like.

Parallels Power Panel Guide

This guide is destined to introduce you to the Power Panel working principles. Power Panel is a means for administering individual Containers and virtual machines through a common web browser on any platform.

Parallels Virtual Automation Installation Guides for Linux/Bare Metal and Windows

These guides provide extensive information on the process of installing Parallels Virtual Automation components. They help to plan the structure of the Parallels Virtual Automation network, explain the interconnections between all components and contain detailed description of installation procedures.

Parallels Virtual Automation Agent XML API Reference

This document is a complete reference on all Parallels Virtual Automation configuration files and physical server command-line utilities.

Parallels Virtual Automation Agent Programmer's Guide

This is a task-oriented guide that provides information on all Parallels Virtual Automation configuration files and physical server command-line utilities.

These documents are available at the Parallels website: <http://www.parallels.com>.

Contact Information

Product website: <http://www.parallels.com>

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