

# Parallels<sup>®</sup> Helm

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## **Parallels Helm 4.1 Python for Microsoft IIS 7 Module Guide**

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# Preface

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## Typographical Conventions

Before you start using this guide, it is important to understand the documentation conventions used in it.

The following kinds of formatting in the text identify special information.

<u>Formatting convention</u>	<u>Type of Information</u>	<u>Example</u>
<b>Special Bold</b>	Items you must select, such as menu options, command buttons, or items in a list.	Go to the <b>System</b> tab.
	Titles of chapters, sections, and subsections.	Read the <b>Basic Administration</b> chapter.
<i>Italics</i>	Used to emphasize the importance of a point, to introduce a term or to designate a command line placeholder, which is to be replaced with a real name or value.	The system supports the so called <i>wildcard character</i> search.
Monospace	The names of commands, files, directories, and domain names.	The license file is located in the <code>http://docs/common/licenses</code> directory.

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Preformatted	On-screen computer output in your command-line sessions; source code in XML, C++, or other programming languages.	<pre># ls -al /files total 14470</pre>
Preformatted Bold	What you type, contrasted with on-screen computer output.	<pre># cd /root/rpms/php</pre>
CAPITALS	Names of keys on the keyboard.	SHIFT, CTRL, ALT
KEY+KEY	Key combinations for which the user must press and hold down one key and then press another.	CTRL+P, ALT+F4

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## Feedback

If you have found a mistake in this guide, or if you have suggestions or ideas on how to improve this guide, please send your feedback using the online form at <http://www.parallels.com/en/support/usersdoc/>. Please include in your report the guide's title, chapter and section titles, and the fragment of text in which you have found an error.

## CHAPTER 2

# About Parallels Helm

Parallels Helm Web Hosting Control System is an extremely powerful hosting automation solution for Windows 2000 and Windows .NET servers. Parallels Helm is owned by Parallels, a global leader in virtualization and automation software. Web site: <http://www.parallels.com/en/products/helm/>

## CHAPTER 3

# About This Guide

This guide explains how to install and configure Python for Microsoft IIS 7 module within Parallels Helm.

# Installing the Python Module

Python for Microsoft IIS 7 is a Provider Extension which means it is an extension of another Provider module. In this case, the Provider that it extends is the *Microsoft IIS 7* module. Therefore, in order to use the Python Support module, you must first have the *Microsoft IIS 7* module installed. For details on doing this, please refer to the *Parallels Helm 4.1 Microsoft IIS 7 Provider Guide* at <http://www.parallels.com/en/products/helm/docs/>.

➤ **To install the Python module:**

- 1 Run the Helm Configuration Tool on your server.
- 2 Click the **Installed Modules** button, and you will see all of the available modules for Helm.
- 3 Find the **Python for Microsoft IIS 7** module in the list and check the box, and then click the **Install/Uninstall Modules** button to install it.

# Providing Python Support in Parallels Helm

The Python for Microsoft IIS 7 module is a module that allows you to host sites which can support Python through IIS 7 (sites that can use extensions such as `.py`). To use Python you must first download and install it from the official Python site: <http://www.python.org/download/>.

The most common (and easiest) installation will be the Windows Installer file. Once done, you can continue to set up Python in Helm.

➤ *To configure the Python settings in Helm:*

- 1 Go to the IIS service you have set up: **Home > Helm System > Servers > [Your Server] > Services > [Your IIS 7 Service]**
- 2 Scroll down and you will see the **Python Extension** details:
  - **Make Python available for users:** Check this box to make Python available for Helm users.
  - **Handler Mapping name for IIS 7:** Set Python handler mapping name (`Python CGI` by default).
  - **Python Path.** This is the path to the Python executable file on the server, which IIS uses to run Python. By default, it points to `C:\python24\python.exe` but this field can be altered if you have installed it in a different location.
  - **File Extensions.** Here you can specify the extensions that will be added to a website's IIS configuration when Python is enabled in the **Scripting Support** section of the **Domain** menu in Helm.

# Making Python Available to Your Customers

If you would like to offer Python to your resellers and/or end-users, you will need to increase the amount of installations available in their plans and packages. To do this:

- 1 In Helm, go to **Home > My Plans > [plan] > Resource Limits**.
- 2 When you first set up Python in a plan (the **Python Installations** field under the **Web** section of a Plan), the amount is set to **0** by default (*unlimited*). You need to change the limit amount to whatever you require.
- 3 Click **Save** to apply changes.

# Enabling Python on a New Web Site

Now that you have configured Python support in Helm, you can start enabling it on your domains.

➤ **To enable Python on a new Web site:**

- 1 Log into your domain in Helm: **Home > My Domains > [domain]**, or **Home > My Customers > [Customer Name] > Domains > [domain]** (or a similar location if you have resellers, and customers underneath them) and you will be presented with the **Domain** menu (this screen will differ depending on what services are installed on your domain):
- 2 Click the **Scripting Support** icon and you will be taken to the **Scripting Support** page.
- 3 Scroll down until you get to the **Python Scripting Support** options:  
**Python Enabled:-** Check the box to Python support on the domain. Once done, it will add Python extensions to the domain in IIS, based on the extensions you specified in the IIS Service earlier in this guide.
- 4 Once you have made your choices, click **Save** to save the Scripting Support services for the domain.

# Enabling Python on an Existing Web Site

- *To add Python support to an existing domain:*
  - 1 Go to the domain in Helm and click the **Services** tab at the top.
  - 2 Make sure the **Python for Microsoft IIS 7** check box is checked, If not, check it and click **Save** to allocate the Python service to the domain.
  - 3 Click the **Scripting Support** icon and you will be taken to the **Scripting Support** page.
  - 4 Scroll down until you get to the **Python Scripting Support** options:
    - **Python Enabled.** Check the box to Python support on the domain. Once done, it will add Python extensions to the domain in IIS, based on the extensions you specified in the IIS Service earlier in this guide.
  - 5 Once you have made your choices, click **Save** to save the Scripting Support services for the domain.

# Enabling Python Support During Domain Creation

You may want to save some time by having Python support added to domains as soon as they are created. Helm allows you to do this via a feature called **Provisioning Methods**.

Effectively, this allows you to select certain features and services which will get added/enabled on your domain when they that domain is added into Helm. Python scripting support is one of those services.

➤ **To enable Python support during domain creation:**

- 1 Go to **Home > My Plan Templates > [Template]** and scroll down to the **Provisioning Methods** section.
- 2 Click **Add** and give the provisioning method a friendly name (for example, **Enable Python**).
- 3 Select **(Web Extension) Set Python Status** from the **Available Methods** drop down box.
- 4 A new parameter will become available – the **Python installed** check box. Check this box to enable Python support to be activated on any domain that is added using this Plan Template.
- 5 Once you are happy with the settings, click **Save** to save the Provisioning Method.