

InstantWP User Guide

InstantWP Version 5



InstantWP

<http://www.instantwp.com>

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A Word From the Author

I originally created Instant WordPress for a class on blogging that I was teaching way back in 2007.

It became an immediate hit with my students and allowed them to unleash their creativity in their work with WordPress without getting bogged down in technical details.

I hope that InstantWP brings you the same freedom and creativity in your work with WordPress.

Regards

Seamus Brady



1. Introducing InstantWP

1.1. Overview

Instant WordPress is a complete standalone, portable WordPress development environment. It turns any Windows or macOS machine into a WordPress development server. It will even run from a USB key.

InstantWP has been under development since 2008 and was first developed as a WordPress teaching tool.

The software has been downloaded over a million times and is trusted worldwide in universities, schools and businesses for teaching, developing and working with WordPress.

1.2. Technical Overview

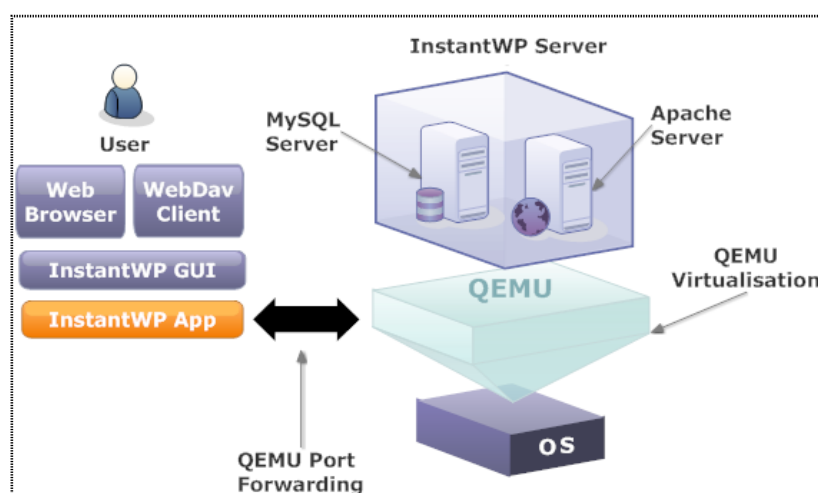


Figure 1: InstantWP Technical Overview

InstantWP contains a virtual webserver wrapped in a simple user interface that should start up in under a minute.

The virtual webserver, called **IWPServer**, runs Alpine Linux inside an open source virtualisation layer called QEMU.

The user interface, or the **InstantWP Control Panel** as we call it, communicates with QEMU via the main InstantWP app.

For more details, see the IWPServer section.

1.3. Installing and Uninstalling InstantWP

InstantWP is completely portable and the installation on both Windows and macOS is extremely straightforward.

In both cases, you should download the InstantWP zip from the main InstantWP website at <http://www.instantwp.com>.

InstantWP can be installed as many times as you wish, but only one instance can be run at a time unless you edit the Port Offset number. See the Network Ports section for more details.

1.3.1. Installation on Windows

- Copy the downloaded InstantWP zip into the desired folder. It is best to not have any spaces in the folder path to InstantWP as this can cause issues.
- Unzip the InstantWP zip file using any standard zip utility.
- Open up the unzipped folder.
- Double click on the *Start-InstantWP.bat* file to start InstantWP.
- The InstantWP Control Panel should start up after the progress bar completes.

1.3.2. Installation on macOS

- Copy the downloaded InstantWP zip into the desired folder.
- Unzip the InstantWP zip file using the standard macOS archive utility.
- Open up the unzipped folder.
- Double click on the *Start-InstantWP* file to start InstantWP.
- The InstantWP Control Panel should start up after the progress bar completes.

1.3.3. Uninstalling on Windows and macOS

There is nothing installed when InstantWP runs, apart from what is in the unzipped InstantWP folder. Shutting down InstantWP and then deleting the unzipped folder is all that is required to remove InstantWP.

1.4. Requirements

InstantWP should run on the most recent versions of macOS, Windows 10 and Windows 7.

It is suggested that you have at least 4GB of RAM to run InstantWP but the amount of RAM that is needed can be adjusted if you wish. See the configuration section for more details. InstantWP also needs at least 250MB of disk space.

2. InstantWP Control Panel

The InstantWP Control Panel is the main user interface for InstantWP and will start up after the progress bar runs. There are two tabs available on the Control Panel.

2.1. Control Panel Tab

This tab gives access to the local WordPress installation. The default url of WordPress is <http://127.0.0.1:10080/wordpress>

Button	Description
WordPress Frontpage	This opens the WordPress homepage.
WordPress Admin	This opens the WordPress Dashboard. The default login is the user "admin" and the password is "password".
Themes Folder	This opens up the WordPress Themes folders on your local machine. Please see the note below about how these folders are managed.
Plugins Folder	This opens up the WordPress Plugin folders on your local machine. Please see the note below about how these folders are managed.
MySQL Admin	The default MySQL user is "root" and the password is left blank
Help	This opens up the local InstantWP documentation.
About	This opens up information about the InstantWP software.
Quit	Exits InstantWP and shuts down the IWPServer.

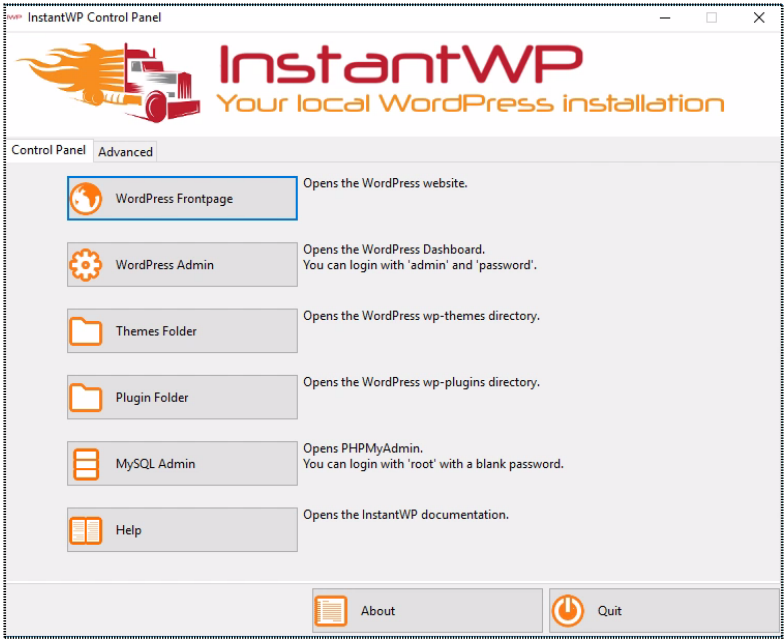


Figure 2: Control Panel Tab on Windows



Figure 3: Control Panel Tab on macOS

2.2. Themes and Plugins Folder Management

The Themes and Plugins folder are handled slightly differently depending on the operating system you are using.

- On Windows, the Themes and Plugins folders are local folders that are kept synchronised with the embedded Virtual Linux server. This means that there may be a tiny time lag between making local changes and the changes appearing in WordPress.
- On macOS, a shared web directory (using a WebDav folder on the Linux Virtual Server) is mounted using the Finder and can be accessed as a local folder.

In either case, if the Themes and Folders access is not sufficient, then there are plenty of options available. For more information on these alternatives, please see the Advanced Tab section for information on the Web File Manager or using the SFTP client that is bundled with InstantWP.

2.3. Manually Installing Themes and Plugins

To install plugins and themes, simply download and unzip the theme or plugin folder to your computer.

On the InstantWP Control Panel click on the Plugins Folder button or the Themes Folder button as appropriate. This will open the plugin or theme folder for your local WordPress installation.

Copy and paste the theme or plugin folder into the local WordPress plugin or theme folder that was opened above.

Click on the WordPress Admin link on the InstantWP Control Panel and log in. The plugin or theme should now be listed. Enable the plugin or theme. Please note this may take moment or two to appear if you are using the Windows operating system.

Click on the WordPress Frontpage link on the Instant WordPress Control Panel to see how the plugin or theme is working in your local WordPress installation.

Of course, you can also install themes and plugins in the usual way from within the WordPress Administration Panel.

2.4. Upgrading WordPress

The version of WordPress within InstantWP can be upgraded automatically using the standard WordPress update mechanism.

Simply the WordPress administrative backend using the WordPress Admin link on the InstantWP Control Panel and follow the links that appear with the WordPress Dashboard.

Please note that sometimes the WordPress version in InstantWP will be a little behind. This is to allow testing of upgrade scenarios.

2.5. Advanced Panel Tab

The buttons on this tab open up more advanced functionality.

Button	Description
SSH Terminal	<p>This button will open an SSH session to the VM.</p> <p>You will be logged in automatically as user "iwp" with password "iwp".</p> <p>Please see the section on IWPServer SSH access below.</p>
SFTP Client	<p>This will open the SFTP client - Fugu SFTP on OSX and WinSCP on Windows.</p> <p>Please see the SFTP client section below.</p>
QEMU Monitor	<p>This will open access to the QEMU monitor console for interacting with Virtual Machine.</p> <p>You can control various aspects of the virtual machine.</p> <p>See the QEMU Monitor documentation for more information.</p>
Web File Manager	<p>This will open the InstantWP config file in your default text editor. You can login with user "iwp" and password "iwp".</p>
Edit Config File	<p>This will open the InstantWP config file in your default text editor.</p> <p>Please see the Configuration section for more information.</p>
PHP Info	<p>This will open the PHP Info page which outputs information about PHP's configuration.</p> <p>Please see the PHP manual page.</p>



Figure 4: Advanced Tab Panel on Windows

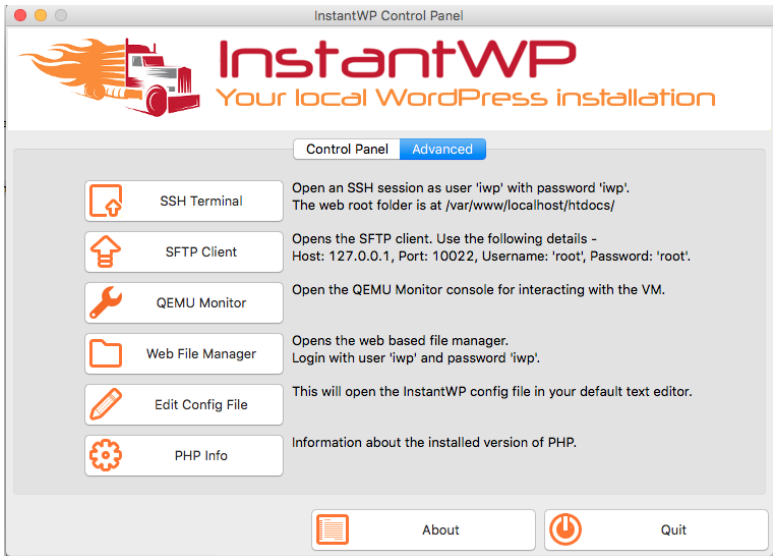


Figure 5: Advanced Tab Panel on macOS

2.5.1. Using the SFTP Client

You can use the following details to login to the VM:

- The server to connect to: 127.0.0.1
- The username: root
- The network port: 10022
- The password: root
- The web root directory is at /var/www/localhost/htdocs/

For more information and help on the included macOS SFTP client, please see the [Fugu homepage](#).

For more information and help on the included Windows SFTP client, please see the [WinSCP homepage](#).

3. IWPServer - The InstantWP Virtual Machine

IWPServer is the embedded Linux Virtual Machine that runs WordPress. The Virtual Machine is stored in a qcow2 file in the vm folder where you unzipped InstantWP.

The standard way to access the Virtual Machine is using the SSH Terminal.

3.1. Alpine Linux

The Virtual Machine runs Alpine Linux. Alpine Linux is a security-oriented, lightweight Linux distribution. You can find out more information about Alpine Linux at the [distribution homepage](#).

3.2. Managing Software on IWPServer

You can manage installed software on the Virtual Machine using the *apk* tool which is included with Alpine Linux. You can add, upgrade and install any software as you wish on the Virtual Machine including PHP and MySQL. For more information see the [Alpine Linux package management documentation](#).

3.3. Default User Accounts

- The default user account is "iwp" with the password "iwp".
- The default admin account is "root" with the password "root".

Of course, you can add, edit and remove user accounts using the standard Linux command line tools.

3.4. Useful Command Line Tools

You can use the following commands from the SSH Terminal to start and stop various IWPServices.

Description	Command
Stop Apache Web Server	<code>sudo rc-service apache2 stop</code>
Start Apache Web Server	<code>sudo rc-service apache2 start</code>
Restart Apache Web Server	<code>sudo rc-service apache2 restart</code>
Stop MySQL Database Server	<code>sudo rc-service mariadb stop</code>
Start MySQL Database Server	<code>sudo rc-service mariadb start</code>
Restart MySQL Database Server	<code>sudo rc-service mariadb restart</code>
Reset WordPress Permissions	<code>/home/iwp/scripts/reset-wp-permissions</code>

3.5. Virtual Machine Configuration Files

You can edit the files below using the SFTP client and your operating systems text editor.

You can also use the Nano text editor from the SSH Terminal using the command "`sudo nano <FILEPATH>`". For more information on the Nano text editor, please see the [Nano documentation](#).

File Type	File Description	File Path
PHP Initialisation File	PHP settings and defaults	/etc/php7/php.ini
Apache Web Server Config	Web server settings	/etc/apache2/httpd.conf
MySQL Config File	Database settings	/etc/mysql/my.cnf

3.6. Network Ports

You can connect to the network ports using localhost or 127.0.0.1 as the host name.

Port Name	Port Number	Description
HTTP	10080	Apache web server port.
SSH	10022	Secure Shell port.
QEMU Monitor	10099	Virtualisation shell access.

3.6.1. Port Offset

Each InstantWP installation has a Port Offset number. This allows you to customise what network ports on your local computer get mapped to what network ports on the Virtual Machine.

If you wish to run more than one instance of InstantWP at a time, you need to edit the Port Offset setting in the Configuration file so that each instance has a unique number. For instance, leave one install at a Port Offset of 10000 and set the next install to 11000.

The default Port Offset of the standard Virtual Machine is 10000.

4. InstantWP Configuration File

The main config file for InstantWP is in the config folder wherever you unzipped InstantWP. You can also open the configuration file using the Edit Config Button on the Advanced Tab Panel.

There are multiple settings available but the settings below may be the most useful.

Setting Name	Setting Description	Default Value
VMFile	qcow2 virtual file in the vm directory	iwpserver-2.0.1.qcow2
RAM	RAM Amount	256 MB
ShowQEMUWindow	Show the QEMU window start up	no
PortOffset	The Port Offset number	10000

5. InstantWP Command Line

InstantWP comes with a command-line tool called iwpccli / iwpccli.exe.

The following command are available:

Command Description	Command
Check if IWP is running and print out a status message	iwpccli status
Start InstantWP	iwpccli start
Quit InstantWP	iwpccli quit
Open WordPress frontpage	iwpccli wpfrontpage
Open WordPress Dashboard	iwpccli wpadmin
Open the plugins folder	iwpccli plugins
Open the themes folder	iwpccli themes
Open PHPMyAdmin	iwpccli mysql
Open IWP documentation	iwpccli docs
Open IWP about page	iwpccli about
Open up an SSH session on the IWP VM	iwpccli ssh
Open up the QEMU VM Monitor shell	iwpccli monitor

6. Further Information

6.1. GitHub Project

The code for InstantWP is available at the GitHub project below:

<https://github.com/corvideon/InstantWP/>

6.2. Included Software

You can also find further technical information about what versions of PHP and MySQL and other included software is used as part of InstantWP by visiting the GitHub project.

The About page also lists some of this information from within InstantWP.

6.3. FAQ - Frequently Asked Questions

For troubleshooting and further technical tips please see the InstantWP FAQ:

<http://www.instantwp.com/go/FAQ/>

6.4. Open Source License and Warranty

InstantWP is released under the GPL v3. See the included LICENSE file.

You can use InstantWP for any purposes for an unlimited period of time.

InstantWP is provided free of charge.

InstantWP may be installed and used on any number of systems.

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