



Community Experience Distilled

WordPress Multisite Administration

A concise guide to set up, manage, and customize your blog network using WordPress multisite

Tyler L. Longren

[PACKT] open source*
PUBLISHING community experience distilled

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BIRMINGHAM - MUMBAI

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I would like to thank my family for their support, especially my wife Kayla and our daughter, Sydney, who insists on staying out catching lightning bugs until 10 p.m. every night.

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Preface

Surely you're familiar with `WordPress.com`, the ultra popular blogging network. Most people don't realize that the software behind WordPress is available for anyone to use, allowing anyone to create a blog network similar to `WordPress.com`.

WordPress multisite is at the core of `WordPress.com` and comes as part of the standard self-hosted WordPress download from `WordPress.org`. We can use WordPress multisite for a number of purposes, from setting up a public blog network by consolidating all of your single site WordPress installations into a multisite network.

WordPress multisite administration will take you through everything you need to know about WordPress multisite. You'll need to have a little experience with single site WordPress installations, but that's it. We cover topics like activating multisite from a single site installation, setting up a custom author-listing directory, and protecting your multisite network.

What this book covers

Chapter 1, Getting Started with WordPress Multisite, will cover activating WordPress multisite from a single-site installation, and other basic tasks.

Chapter 2, Customization, will guide you in installing and configuring themes and plugins. We'll also go over how to create a custom author-listing directory.

Chapter 3, User Management and Permissions, will help you understand what the Super Administrator is and everything it can do. We'll also touch on individual site management and go over other user roles and permissions.

Chapter 4, Protecting Your Multisite Network, will focus on the best practices for keeping your multisite installation secure; from plugins to password protection with the `.htaccess` files.

Chapter 5, Migrating Multiple WordPress Blogs to a Multisite Network, will cover everything you need to bring multiple, single-site WordPress blogs over to a multisite network. Makes updating everything at once really easy.

Chapter 6, Site Optimization, will cover various ways you can enhance the performance of your sites. Everything from using CDN services like CloudFlare to caching plugins for WordPress.

Chapter 7, Troubleshooting and Maintaining Stability, will focus on common problems and fixes for those problems. We'll also go over backups and updating WordPress.

What you need for this book

You'll need to have a place to host your website, first of all. If you don't have a webhost, you can follow along by installing a web server, PHP, and MySQL on your computer. This can be achieved through a variety of methods, including Google LAMP, and you'll find many options.

You'll also need some sort of FTP client; I use FileZilla throughout the book. A text editor or other code editor will also be needed; I used Sublime Text in the book.

Who this book is for

This book is geared towards people who have some experience with WordPress already. You don't need to know anything about WordPress multisite, though.

People who run multiple WordPress single-site installations will be especially interested, since we cover how to migrate those single sites over to a multisite network. Merging all your sites into one network makes updating and general maintenance really, really easy.

Conventions

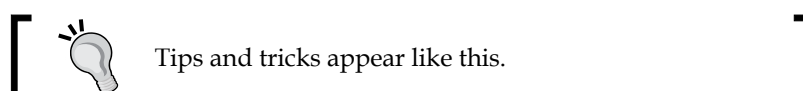
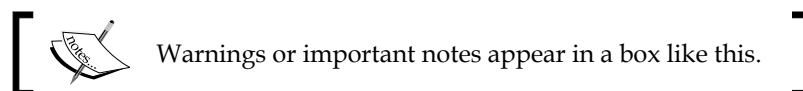
In this book, you will find a number of styles of text that distinguish between different kinds of information. Here are some examples of these styles, and an explanation of their meaning.

Code words in text, database table names, folder names, filenames, file extensions, pathnames, dummy URLs, user input, and Twitter handles are shown as follows: "There's a comment in there that says `Multisite` and directly under it is where we define the named constant, `WP_ALLOW_MULTISITE`, to `true`."

A block of code is set as follows:

```
// ** MySQL settings - You can get this info from your web host ** //  
/** The name of the database for WordPress */  
define('DB_NAME', 'database_name_here');  
  
/** MySQL database username */  
define('DB_USER', 'username_here');  
  
/** MySQL database password */  
define('DB_PASSWORD', 'password_here');  
  
/** MySQL hostname */  
define('DB_HOST', 'localhost');  
  
/** Database Charset to use in creating database tables. */  
define('DB_CHARSET', 'utf8');  
  
/** The Database Collate type. Don't change this if in doubt. */  
define('DB_COLLATE', '');  
  
/* Multisite */  
define('WP_ALLOW_MULTISITE', true);
```

New terms and **important words** are shown in bold. Words that you see on the screen, in menus or dialog boxes for example, appear in the text like this: "Specify your **Network Title** and **Admin E-mail Address** values, and click on the **Install** button at the bottom of the form."



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1

Getting Started with WordPress Multisite

WordPress is an amazing piece of software. One of its more advanced features is called **multisite**. With WordPress multisite, you can essentially build your own blog network, similar to `wordpress.com` or Tumblr.

System requirements and considerations

Multisite is an integrated part of the WordPress core. That means you won't have to download anything other than the official WordPress package to get set up. There are some basic system requirements that you should consider before even trying to install WordPress. At the most basic level, WordPress requires PHP 5.2.4 or greater and MySQL 5.0 or greater. You can see a detailed list of system requirements at <http://wordpress.org/about/requirements/>.

There are some basic things you should take into consideration before deciding to use WordPress multisite for your project. Most important is defining a project scope and making sure that WordPress provides enough features to meet that scope. It's possible that WordPress is overkill, in terms of features, for your project as well. It's all really dictated by the specific features your project needs.

Chances are, since you're reading this book, you want to set up a blog network of some type. WordPress multisite is used for a wide variety of reasons, from university class blogs to high-traffic websites or anything in between. The most common use of WordPress multisite I've seen is with small groups of individuals who want a blog but don't want to join a massive blog network such as `WordPress.com`.

WordPress didn't always include the multisite feature. Prior to WordPress 3.0, WordPress came in two flavors, **regular** and **multiuser**. WordPress 3.0 introduced WordPress multisite, as it's known today. WordPress 3.0 was released in June 17, 2010.

Terminology

There are going to be some basic WordPress-related terms that you'll want to become familiar with. These terms usually apply to multisite and a standard WordPress single-site install. You can check some of the terminologies used in WordPress at http://codex.wordpress.org/WordPress_Semantics.

Now that you've got some basic WordPress knowledge, we might as well get to downloading and installing WordPress. The WordPress installation process is very easy, only requiring you to upload the files to your webhost and then to edit database connection settings in a file named `wp-config.php`.

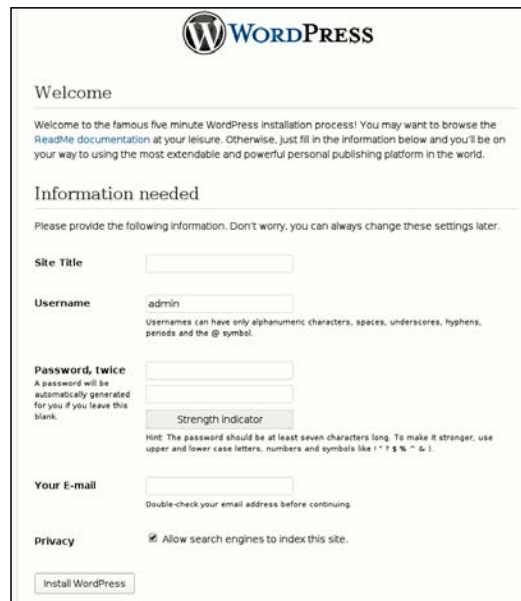
Before we get too far, we need to take a couple things into consideration. First, think about how you want URLs to be set up. You can use subdomains for each individual's blog URL or you can use a subfolder style setup, such as `http://multisite.longren.org/tyler/`. Also, installing themes and plugins is a bit different from a typical WordPress install, but we'll get to that a bit later in this chapter. I really suggest reading the *Before You Create A Network* article in the WordPress Codex, available at http://codex.wordpress.org/Before_You_Create_A_Network.

Okay, let's get down to installing WordPress and enabling the multisite feature.

Installing WordPress

We'll start the WordPress installation wizard with the web browser. I like to use Google Chrome but any web browser should work. So, open your browser and navigate to your multisite installation URL. I installed WordPress multisite at a subdomain of my main `longren.org` domain name, but you can use a subdirectory too, such as `http://www.longren.org/multisite/`.

Once you've opened your site you'll see a window as shown in the following screenshot. This is where you can set the name of the site as well as choose your administrative username and password. The default administrative username in WordPress is `admin` but I highly suggest that you change that to something else. A lot of WordPress web attacks try to exploit the default administrative account name, so not having an `admin` user puts you in a better position security-wise.



WordPress

Welcome

Welcome to the famous five minute WordPress installation process! You may want to browse the [ReadMe documentation](#) at your leisure. Otherwise, just fill in the information below and you'll be on your way to using the most extendable and powerful personal publishing platform in the world.

Information needed

Please provide the following information. Don't worry, you can always change these settings later.

Site Title

Username
Usernames can have only alphanumeric characters, spaces, underscores, hyphens, periods and the @ symbol.

Password, twice
A password will be automatically generated for you if you leave this blank.

Strength indicator
Hint: The password should be at least seven characters long. To make it stronger, use upper and lower case letters, numbers and symbols like ! " \$ % ' & .

Your E-mail
Double-check your email address before continuing.

Privacy Allow search engines to index this site.

That is the only page where you need to enter any information in the WordPress installation wizard. In the next screenshot, you can see what the page in the previous screenshot should look like after you've filled everything out.



WordPress

Welcome

Welcome to the famous five minute WordPress installation process! You may want to browse the [ReadMe documentation](#) at your leisure. Otherwise, just fill in the information below and you'll be on your way to using the most extendable and powerful personal publishing platform in the world.

Information needed

Please provide the following information. Don't worry, you can always change these settings later.

Site Title

Username
Usernames can have only alphanumeric characters, spaces, underscores, hyphens, periods and the @ symbol.

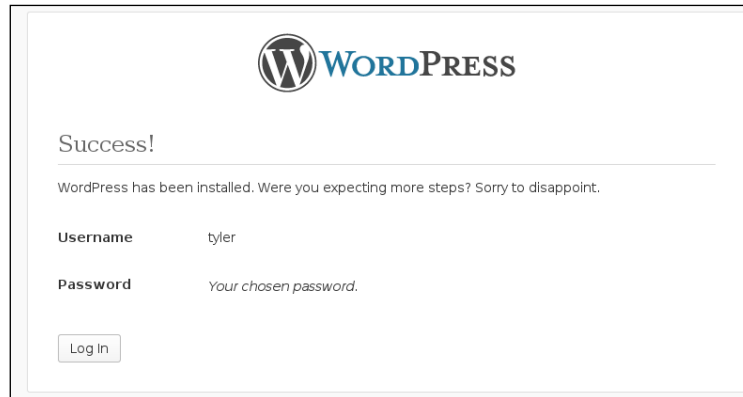
Password, twice
A password will be automatically generated for you if you leave this blank.

Strong
Hint: The password should be at least seven characters long. To make it stronger, use upper and lower case letters, numbers and symbols like ! " \$ % ' & .

Your E-mail
Double-check your email address before continuing.

Privacy Allow search engines to index this site.

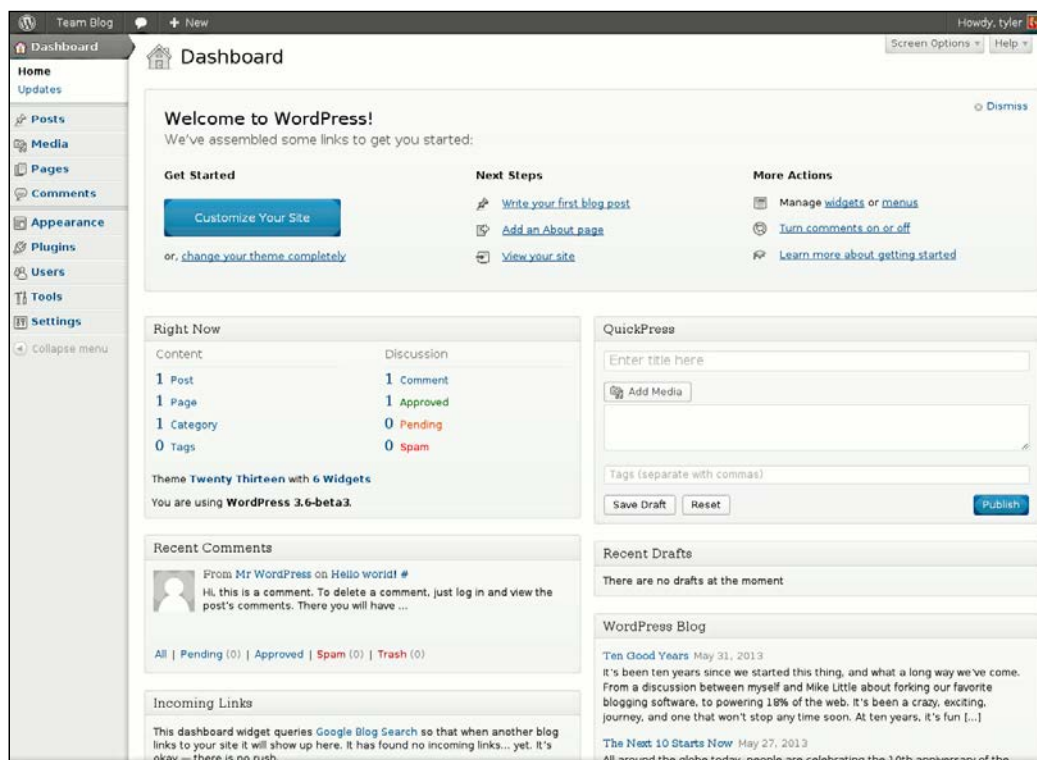
After you've filled everything out and chosen a username anything *other than* the admin term, click on the **Install WordPress** button at the bottom of that page. After clicking on **Install WordPress**, you'll see a **Success!** message along with your chosen username. As you can see in the following screenshot, your password isn't shown on the screen:



Once you're on the **Success!** page, you can click on the **Log In** button. You'll be taken to your WordPress login page, located at `/wp-login.php` or `http://multisite.longren.org/wp-login.php` in my example. You can also navigate to `/wp-admin/` or `http://multisite.longren.org/wp-admin/`, to log in to your WordPress **Dashboard** window. The default login page can be seen in the following screenshot. The login screen can be changed visually through the use of plugins or custom settings for your WordPress theme.



Enter the **Username** and **Password** values that you chose when going through the WordPress installation wizard to get logged in. Upon successful login, you'll be taken to your WordPress **Dashboard** window for the first time. Now, we get to do more stuff that's specific to multisite setups. But first, the following screenshot shows what your WordPress **Dashboard** window should look like:



Configuring the WordPress multisite feature

First, we need to download WordPress. Open your web browser and navigate to <http://wordpress.org/download/>. At that page you can choose to download WordPress as a ZIP file or as a `.tar.gz` file. If you're on Windows you'll probably want to download the ZIP file, while Linux and OS X users can download whichever they prefer.

Once you've got the .zip or .tar.gz file downloaded, open it up and you should see a folder named `wordpress` in there. Extract that `wordpress` folder to somewhere on your local computer, such as your desktop. Next, open up an FTP connection to your webhost and upload everything from the `wordpress` directory that we have put on your desktop earlier.

After the upload is finished, go ahead and install WordPress as you would for a single site. After that install is done, we'll edit `wp-config.php` to enable multisite.

We'll go through the basic settings in `wp-config.php`, including code snippets.

After renaming `wp-config-sample.php` to `wp-config.php`, open it up for editing. You can open it directly from your webhost if you're using a FTP client such as FileZilla. Just right-click on `wp-config.php` and select **View/Edit** within FileZilla. I chose to use FileZilla as an example because it's available for multiple operating systems, including Windows, OS X, and Linux.

Once you've opened `wp-config.php` in your text editor, you'll be presented with some code that looks like what you'll see in the next code.

```
// ** MySQL settings - You can get this info from your web host ** //
/** The name of the database for WordPress */
define('DB_NAME', 'database_name_here');

/** MySQL database username */
define('DB_USER', 'username_here');

/** MySQL database password */
define('DB_PASSWORD', 'password_here');

/** MySQL hostname */
define('DB_HOST', 'localhost');

/** Database Charset to use in creating database tables. */
define('DB_CHARSET', 'utf8');

/** The Database Collate type. Don't change this if in doubt. */
define('DB_COLLATE', '');

/* Multisite */
define('WP_ALLOW_MULTISITE', true);

/**#@+
```

```

* Authentication Unique Keys and Salts.
*
* Change these to different unique phrases!
* You can generate these using the {@link https://api.wordpress.org/
secret-key/1.1/salt/ WordPress.org secret-key service}
* You can change these at any point in time to invalidate all
existing cookies. This will force all users to have to log in again.
*
* @since 2.6.0
*/
define('AUTH_KEY',          'put your unique phrase here');
define('SECURE_AUTH_KEY',   'put your unique phrase here');
define('LOGGED_IN_KEY',     'put your unique phrase here');
define('NONCE_KEY',        'put your unique phrase here');
define('AUTH_SALT',        'put your unique phrase here');
define('SECURE_AUTH_SALT', 'put your unique phrase here');
define('LOGGED_IN_SALT',   'put your unique phrase here');
define('NONCE_SALT',       'put your unique phrase here');

```

You may notice that there's an additional piece of code in there, compared to what's being shown in your `wp-config.php` file. There's a comment in there that says `Multisite` and directly under it is where we define the named constant, `WP_ALLOW_MULTISITE`, to `true`. In the following code, you'll find exactly what you need to add to `wp-config.php` to enable the multisite feature:

```

/* Multisite */
define('WP_ALLOW_MULTISITE', true);

```

I like to set that constant below the database config settings, around lines 36 and 37 in the default `wp-config.php` file.

The database configuration constants at the top of `wp-config.php` are pretty self-explanatory. They're named things such as `DB_NAME`, `DB_USER`, and `DB_PASSWORD`. But you can guess what those values should be set to. There are some not quite so obvious database settings too, such as `DB_CHARSET` and `DB_COLLATE`. It's usually a good idea to keep those at the default value; `DB_CHARSET` is set to `utf8` by default, which is Unicode. The `DB_COLLATE` constant should contain a value for the language you're going to use within WordPress. If you're using English, you can just leave the value for `DB_COLLATE` blank.

In the following code, I also included a bunch of named constants for **authentication unique keys and salts**, towards the bottom. You need to change the existing values there. You can easily generate new, random values by visiting <https://api.wordpress.org/secret-key/1.1/salt/>. Just copy the eight lines of code generated on that page and then paste it into `wp-config.php`, replacing the other keys. So you should go from the following code to something resembling what you see in the version generated by `api.wordpress.com`:

```
define('AUTH_KEY',          'put your unique phrase here');
define('SECURE_AUTH_KEY',   'put your unique phrase here');
define('LOGGED_IN_KEY',     'put your unique phrase here');
define('NONCE_KEY',        'put your unique phrase here');
define('AUTH_SALT',        'put your unique phrase here');
define('SECURE_AUTH_SALT', 'put your unique phrase here');
define('LOGGED_IN_SALT',   'put your unique phrase here');
define('NONCE_SALT',       'put your unique phrase here');
```

And following is the code that's an example of the keys generated on the `api.wordpress.com` page:

```
define('AUTH_KEY',          '*`b7,!cuc2Ub+IabKJ-h|*5SdfO8uBm-
L1&=<Q5>6ois3?qCTVA|^d%W(o[<Y-<C');
define('SECURE_AUTH_KEY',  '<v?OP<V*:Nz#AazY0l?*7^{d-i6-
EyA*,|Flp>|BR&*u=&Gad{2r6L^8g+#r~Z&^');
define('LOGGED_IN_KEY',    'I!u|T-h(4kc[ L%#QJs7`NyM.]]-W~/,rmhRteNQ`^
LC+>0&zG|6Lqe5Zf%kx$B');
define('NONCE_KEY',        ', [RG1O?&-GDw|>DC&rH5gMQ040 (d3Xo{dCAY~F2
8M=:]=l>/_,|d#l9X_aRTHfnp');
define('AUTH_SALT',        '8G+g,K.Sd^PDyD,q@,mcXs&CxqR5veL*z9P%<O|+O2
^YU}Ob^je|Ty;{JL1AQOz/');
define('SECURE_AUTH_SALT', 'mndP#V.PZNH+N2HN9,I5`KC_;|j7TyT[`_1UFX
3j|x18*cZS05`u2j5miB^~d^:');
define('LOGGED_IN_SALT',   '[>u+hz%+0t9X1tf<P*Sx1q44leN_WI4$1>yD-
fiu7a>{Gq+ubtqjpy4 {S0YPTp');
define('NONCE_SALT',       'O -Gk@XjD{4PAi-*Q+OhVD^+6@C]Uebrwc}
qLW,2tR*1g4+NMF(sbrp>ppoFD [j');
```

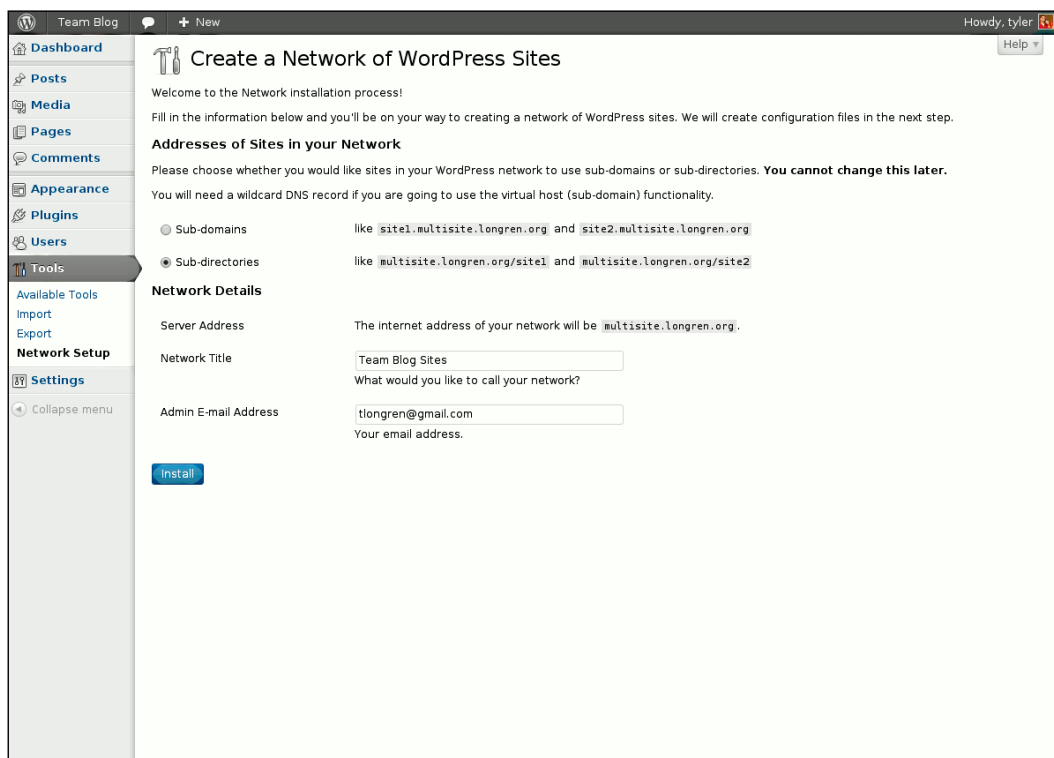
After making those changes to `wp-config.php`, save the file and upload it back to your server. If you opened `wp-config.php` directly with FileZilla, you'll be prompted with a window inside FileZilla that's titled **File has changed**. This window asks if you want to upload the changed file back to the server. Click on **Yes** and your modified `wp-config.php` file will be automatically uploaded to its original location on your server. Any additional changes you make to `wp-config.php` can be uploaded simply by saving `wp-config.php` again and telling FileZilla to upload your changed file.

Now that our `wp-config.php` file knows that we're going to set up multisite, it's time to run the network setup. To install a network, start out by putting your mouse cursor over the **Tools** menu on the left-hand side of the WordPress **Dashboard** window and clicking on the **Network Setup** submenu item.

The page you're taken to after clicking on the **Network Setup** submenu item is titled **Create a Network of WordPress Sites**. Sounds awesome, right? This is ultimately what we're here for, after all.

From here, you can specify if you want to use a subdomain for individual sites or if you'd rather use a directory. I've chosen to use a directory as I think that's the most common setup. So, the URLs in my example will be `http://multisite.longren.org/tyler/` for my blog, `http://multisite.longren.org/kayla/` for my wife, Kayla's, and `http://multisite.longren.org/sydney/` for my daughter, Sydney's.

The setup I'm using on the **Create a Network of WordPress Sites** page can be seen in the following screenshot:



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- [Hitler's Girls book](#)
- [High Fidelity online](#)

- <http://aneventshop.com/ebooks/Lightspeed-Magazine--Issue-33--February-2013-.pdf>
- <http://deltaphenomics.nl/?library/The-Tyranny-of-Guilt--An-Essay-on-Western-Masochism.pdf>
- <http://www.satilik-kopek.com/library/The-Lucifer-Principle--A-Scientific-Expedition-into-the-Forces-of-History.pdf>
- <http://crackingscience.org/?library/Game-Over--How-Nintendo-Zapped-an-American-Industry--Captured-Your-Dollars--and-Enslaved-Your-Children.pdf>
- <http://aneventshop.com/ebooks/Hitler-s-Girls.pdf>
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