

## DokuWiki Install

There are official DokuWiki instructions, you can find them at [External Link](#)

What I have created here is a guide to remind myself of some of the steps I took, and what commands I used (they are not in the DokuWiki guide)

So if you use a combination of my notes, and the official install guide, then you will get a working installation :)

### Update and Upgrade your Pi

Even if you just install the latest build of Linux for your Pi, it's probably a bit out of date, to update it, run these two commands.

```
sudo apt-get update
sudo apt-get upgrade
```

The **update** is used to re-synchronize the package index files from their sources. The indexes of available packages are fetched from the location(s) specified in `/etc/apt/sources.list(5)`. An update should always be performed before an upgrade or dist-upgrade.

The **upgrade** performs a software upgrade according to the list of updated packages obtained from the apt-get update command.

### Install Apache, PHP and ImageMagick

To run your own copy of DokuWiki you will need the following:

1. Webserver supporting PHP (we are going to use Apache, but there are others) Required to host the Wiki
2. PHP5 - DokuWiki runs on PHP
3. Imagemagick - Used by DokuWiki for image handling.

```
To install Apache web server, use the following command:
sudo apt-get install apache2
```

```
To install PHP use the following command:
sudo apt-get install php5
```

```
To install ImageMagick, use the following command:
sudo apt-get install imagemagick
```

### Download and Copy DokuWiki to your webserver and Extract

To download the DokuWiki software, navigate to the <https://www.dokuwiki.org> website and hit the download button

```
Copy docuwiki.tar.gz to pi /home/pi
```

Alternatviely, you can just download the DokuWiki tar file on the Pi

For this example, I am going to use the home folder, assuming that you are logged in as the Pi user

```
tar -xvf dokuwiki.tgz
```

This will extract all the files to a folder in your home location, so you should end up with this folder:  
**/home/pi/dokuwiki**

## Setup Apache Security

You can skip this step if you are only using your wiki internally. But if it will be on the internet, this is a must.

First we need to edit the **/etc/apache2/apache2.conf** file.

```
sudo nano /etc/apache2/apache2.conf
```

Add this section

```
<Directory /home/pi/>
Options Indexes FollowSymLinks
AllowOverride All
Require all granted
</Directory>
```

ENSURE TO CHANGE AllowOverride to All (default) is none

You should have a section that looks like this:

```
<Directory />
Options FollowSymLinks
AllowOverride All
</Directory>
<Directory /home/pi/dokuwiki>
Options Indexes FollowSymLinks MultiViews
AllowOverride All
Order allow,deny
allow from all
</Directory>
```

For some reason I also had to duplicate this in the following file:  
/etc/apache2/sites-enabled/000-default.conf  
Change the DocumentRoot line to /home/pi/dokuwiki

Don't forget to restart Apache before testing these changes\\  
sudo /etc/init.d/apache2 restart

To test the Apache settings, navigate to the following page:  
<http://yourserver.com/data/pages/wiki/dokuwiki.txt>

If you see the page, then your security is not right, if you get an access error, then the apache security is working.

Now you can navigate to your IP Address, and you should see an error, with a link that says to run the installer, click this link

You will see some errors regarding folder access

{DOCUMENT\_ROOT}/conf/ is not writable by DokuWiki. You need to fix the permission settings of this directory! • {DOCUMENT\_ROOT}/data is not writable by DokuWiki. You need to fix the permission settings of this directory! • {DOCUMENT\_ROOT}/data/pages is not writable by DokuWiki. You need to fix the permission settings of this directory! • {DOCUMENT\_ROOT}/data/attic is not writable by DokuWiki. You need to fix the permission settings of this directory! • {DOCUMENT\_ROOT}/data/media is not writable by DokuWiki. You need to fix the permission settings of this directory! • {DOCUMENT\_ROOT}/data/media\_attic is not writable by DokuWiki. You need to fix the permission settings of this directory! • {DOCUMENT\_ROOT}/data/media\_meta is not writable by DokuWiki. You need to fix the permission settings of this directory! • {DOCUMENT\_ROOT}/data/meta is not writable by DokuWiki. You need to fix the permission settings of this directory! • {DOCUMENT\_ROOT}/data/cache is not writable by DokuWiki. You need to fix the permission settings of this directory! • {DOCUMENT\_ROOT}/data/locks is not writable by DokuWiki. You need to fix the permission settings of this directory! • {DOCUMENT\_ROOT}/data/index is not writable by DokuWiki. You need to fix the permission settings of this directory! • {DOCUMENT\_ROOT}/data/tmp is not writable by DokuWiki. You need to fix the permission settings of this directory!

You have to chmod each of these folders, it is good practice to work out the exact permissions required, but for testing purposes you can give all rights which is 777

```
So for the first error, {DOCUMENT_ROOT}/conf/ is not writable by DokuWiki
chmod -R 777 /conf
```

You need to repeat this for each line.

Click the **Restart installer** button, and if you see the setup page then you are ready to roll :)

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