Escuela Superior de Cómputo

ALUMNOS:

Omar Hernández Nagore
Vargas Duran Antony Duran
Cruz Garfias Edgar
Adrián de Jesús Fernández Ramírez

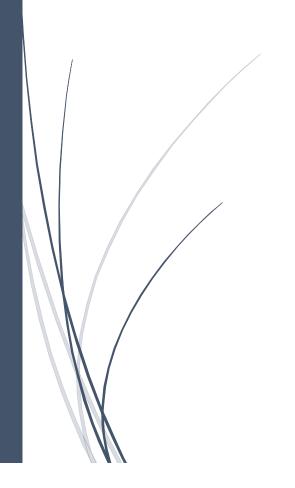**MATERIA:**

ADMINISTRACION DE SERVICIOS EN RED

PROFESOR:

SOTO RAMOS MANUEL ALEJANDRO

TAREA:

Equipo 2 WIKI
Manual de Instalación

GRUPO:

4CV4

This page explains how to install MediaWiki on an Ubuntu linux.

This installation procedure requires knowledge of issuing commands from a terminal (e.g. installing applications) and using a text editor (e.g. graphical: gedit, kate; text: nano, emacs, vi).

- *sudo nano filename*

Step-By-Step

Double check that Ubuntu is up-to-date by running:

- *sudo apt-get update*
- *sudo apt-get upgrade*

Install LAMP Stack

Ubuntu Server Edition makes LAMP (Apache, PHP, and MySQL) available for installation during the install process. During the installation step, make sure you choose to install a LAMP server. Alternately, you can install all of these packages from a normal Ubuntu installation using these commands:

NOTE: Before installing PHP 7.0 you must install following:

- *sudo apt-get install python-software-properties*
- *sudo LC_ALL=C.UTF-8 add-apt-repository ppa:ondrej/php*
- *sudo apt-get update*

Otherwise you won't be able to install PHP 7.0

- *sudo apt-get install apache2 mysql-server php7.0 php7.0-mysql libapache2-mod-php7.0 php7.0-xml*

Useful Packages

These packages are not necessary but may be useful, depending on the installation:

php-apc	Alternative PHP Cache.
php5-intl	Unicode normalization.
imagemagick	Image thumbnailing.
inkscape	Alternative means of SVG thumbnailing, than ImageMagick. Sometimes it can better render SVGs originally created in Inkscape.
GD Library	Alternative to ImageMagick. Install libgd2-xpm libgd2-xpm-dev php5-gd.
phpmyadmin	MySQL administration tool.
vsftpd	FTP Server. (How To⬀)
php5-cli	Ability to run PHP commands from the command line, which is useful for debugging and running maintenance scripts.

Example:

– *sudo apt-get install php-apc php5-intl imagemagick phpmyadmin vsftpd php5-cli*

Get MediaWiki

Warning: The latest release of Ubuntu, 16.04, no longer packages MediaWiki. MediaWiki has to be manually installed. Previous versions of Ubuntu include a MediaWiki package, but it's MediaWiki version 1.19.x, for which support ended in May 2015. It is strongly recommended that MediaWiki be downloaded directly from download.

download the official tarball: https://www.mediawiki.org/wiki/Download

This can be done from a browser or by

– *cd Downloads*
wget https://releases.wikimedia.org/mediawiki/1.27/mediawiki-1.27.0.tar.gz

• extract in your Web directory
Ubuntu 14+: /var/lib/mediawiki

– *tar -xvzf /pathtofile/mediawiki-*.tar.gz*

- *sudo mkdir /var/lib/mediawiki*
- *sudo mv mediawiki-*/* /var/lib/mediawiki*

Ubuntu < 14: /var/www/html

- *tar -xvzf /pathtofile/mediawiki-*.tar.gz*
- *sudo mv mediawiki-*/* /var/www/html*

Configure MySQL

Regular setup

Note: This step is not necessary if you were prompted to create a mysql root password during MySQL installation.

First, set up a mysql root password. Remember not to use same password for system root and mysql root. This will also clear your command history so that other users cannot get to your password.

- *mysqladmin -u root password "<enter the new password here>"*
- *history –c*

Secure setup

Consider running mysql_secure_installation .
from main page:

This program enables you to improve the security of your MySQL installation in the following ways:
- You can set a password for root accounts.
- You can remove root accounts that are accessible from outside the local host.
- You can remove anonymous-user accounts.
- You can remove the test database (which by default can be accessed by all users, even anonymous users), and privileges that permit anyone to access databases with names that start with test_.

- *mysql_secure_installation*

Optional: Configure PHP

Edit your PHP configuration file, php.ini. For Ubuntu 14.x it is at /etc/php5/apache2/php.ini. Depending on Ubuntu version it may be located at /etc/php5/php.ini or /etc/apache2/php/php.ini

– *sudo nano /etc/php5/apache2/php.ini*

Maximum upload file size

Assuming that various files are going to be uploaded to the Wiki as content, the limit on the maximum size of an upload has to be adjusted. About one-half way down is the File Uploads section. Change:
to at least **20M**. You may have to adjust this again in the future if you want bigger uploads.

– *upload_max_filesize = 2M*

Memory limit

Some PHP scripts require a lot of memory to run. To increase the maximum amount of memory a script can use, page down to about 21%, and change the following entry, if found, from

– *memory_limit = 8M*

to

– *memory_limit = 128M*

Configure Apache

Warning: This section only applies if you installed MediaWiki using apt-get or aptitude, which is not recommended.

Edit apache.conf file at /etc/mediawiki/apache.conf

– *sudo nano /etc/mediawiki/apache.conf*

and un-comment this line:

- *Alias /mediawiki /var/lib/mediawiki*

Save and exit out of the editor.

Verify that the Mediawiki configuration is in Apache. Edit the Apache2 configuration file

- *sudo nano /etc/apache2.conf*

or

- *sudo nano /etc/apache2/apache2.conf*

according to appropriate location.

Look for this line. Add it if is not present:

- *Include /etc/mediawiki/apache.conf*

Restart Apache:

- *sudo apache2ctl restart*

or

- *sudo service apache2 restart*

Configure MediaWiki

Navigate your browser to http://localhost/mediawiki (for certain installations it may be http://localhost/mediawiki/config or http://wiki.hostname.com/config instead) and following the procedure given.

If this gives a 404 error then this technique may work:

- *cd /var/www/html*
- *sudo ln -s /var/lib/mediawiki mediawiki*

Pay close attention for **"Checking environment..."** in MediaWiki installation script. This can solve a lot of problems by specifically identifying the source of any errors.

Fill out the configuration form and continue.
Under **Database Config**, you *may* change the database name and DB username to new values, but you **must** turn on "Use superuser account", name:

- ***debian-sys-maint***

giving the mysql root password you configured earlier.
The configuration process creates a custom *LocalSettings.php* that must be moved to the parent directory of the new wiki. The configuration page will give the exact directory/filename that must be moved:

- ***sudo mv /var/lib/mediawiki/config/LocalSettings.php /var/lib/mediawiki***

For added safety you can then remove the *config* subdirectory entirely:

- ***sudo rm -rf config***

And navigate your browser to http://localhost/mediawiki (or http://server_ip_address/mediawiki or http://server_ip_address/mediawiki/index.php) to see your new wiki.

Done! You now have a working Wiki

Additional wiki configuration

General information

Mediawiki is configured by the **LocalSettings.php** file, usually found in /var/www/wiki. Manual:LocalSettings.php has detailed information that may be useful. The following are changes that appear to be universally helpful
To edit LocalSettings.php use

- ***sudo nano /etc/mediawiki/LocalSettings.php***

File uploads

Enable uploads

By default, the Wiki will <u>not</u> permit images to be uploaded. To change this find **$wgEnableUploads** and change it from *false* to *true*.

Specifying uploadable file types

You may want to modify the list of accepted extensions, which is stored within the **$wgFileExtensions** array. For example, you will not be able to upload PDF files without making this change.

If $wgFileExtensions is not already in LocalSettings.php add it at the end (before the ?> line, if one exists in your LocalSettings.php file):

- *$wgFileExtensions = array('pdf','png','jpg','jpeg','ogg','doc','xls','ppt','mp3','sxc','nse');*

In addition to the **$wgFileExtensions** option, the following settings may cause files to be rejected (even if **$wgStrictFileExtensions** = *false*; is set):
- **$wgFileBlacklist**, a list of file extensions that are <u>not</u> uploadable
- **$wgMimeTypeBlacklist**, a list of forbidden MIME types.
If problems are still encountered with uploads, check the *includes/DefaultSettings.php* file.

Image file uploads

The images directory must be writable: For Ubuntu 9.04 and newer, the command is:

- *sudo chmod a+w /var/lib/mediawiki/images*

Changing the logo

The **$wgLogo** variable specifies the graphical logo that gets displayed on the top left corner by default. However, the $wgLogo variable may not be present in

LocalSettings.php by default - it must be added in manually to the bottom.

There is no standard for the size of the logo image, but 135x135 pixels will fit most skins. If the logo it is oversized for a specific skin it will show from the top left corner and clip the bottom/right of the image.

The logo file can be placed anywhere, but putting it in the top-level directory of the wiki is convenient. Fortunately, the variable $wgScriptPath contains the top directory of the wiki, so simply adding the following works well:

- ## *$wgLogo = "$wgScriptPath/wiki.jpg";*

MediaWiki extensions

Standard Extensions

The current installer for mediawiki comes with a package of 15 or so of the most popular extensions, but there are literally hundreds more. Go to http://www.mediawiki.org/wiki/Category:Extensions for a complete list.
A list of the other "standard" extensions included with Ubuntu can be found by just running this command:

- ## *ls /etc/mediawiki-extensions/extensions-available*

Standard extensions can be installed with the mwenext command

- ## *sudo mwenext extensionname.php*

Example: installing ParserFunctions

- ## *sudo mwenext ParserFunctions.php*

If this fails the standard extension package needs to be installed with

- ## *sudo apt-get install mediawiki-extensions*

Other Extensions

Most MediaWiki extensions that are not available in the Ubuntu package system are downloaded in tarball (tar.gz) format and installed manually by putting the files into new subdirectory under extensions. The list of extensions is available here: Category:Extensions in Wikimedia version control

• Download the tarball, unpack it to the "extensions" directory (on Ubuntu: "/var/lib/mediawiki/extensions")
Edit the "LocalSettings.php" (see above) to add a line Reading

– *require_once ("$IP/extensions/yourextension/yourextension.php");*

Confirm you have installed it properly, by going to the Special pages in your wiki (link on left side) and choosing Version. All installed extensions are listed with versions, authors, and links to their home pages.

• Example: installing MiniDonation

For an example, let's take the relatively simple extension called MiniDonation. This extension lets you put a <donationform> tag in your wiki code, and it will display a link to paypal on the page. The site for MiniDonation is here: Extension:MiniDonation Download the tarball (save it to ~/Desktop), then unpack the files to the extensions directory:

– *cd /var/lib/mediawiki/extensions*
– *sudo tar -zxvf ~/Desktop/MiniDonation*

Next, modify LocalSettings with the Include directive specified in the instructions

– *Sudo nano /etc/mediawiki/LocalSettings.php*

Finally, check http://localhost/mediawiki/index.php/Special:Version - it should now list MiniDonation there. Edit a wikipage and add a <donationform> tag to it, save the page and a functional paypal button should be available.