

# AI-02058 MediaWiki Setup Ubuntu

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**What is MediaWiki and use case? Tell me more. Create a Step by Step instructions for MediaWiki installation in Ubuntu Server from start to finish.**

**MediaWiki** is a free and open-source wiki software platform written in PHP, originally developed for Wikipedia. It allows users to collaboratively create and edit web pages using a simplified markup language. It's highly customizable and scalable, making it suitable for everything from small personal wikis to large enterprise knowledge bases.

## Use Cases of MediaWiki

1. **Documentation Platforms** – For software projects, internal tools, or APIs.
2. **Knowledge Bases** – For companies, educational institutions, or communities.
3. **Collaborative Research** – Academic or scientific groups sharing findings.
4. **Internal Wikis** – For team collaboration and information sharing.
5. **Public Wikis** – Like Wikipedia, for open knowledge sharing.

## Step-by-Step Guide to Install MediaWiki on Ubuntu Server

Here's a complete walkthrough for installing MediaWiki on an Ubuntu Server:

### Step 1: Update Your System

```
sudo apt update && sudo apt upgrade -y
```

## Step 2: Install Apache, PHP, and Required Extensions

```
sudo apt install apache2 php php-mysql php-intl php-xml php-mbstring php-curl php-gd php-apcu libapache2-mod-php -y
```

## Step 3: Install and Configure MariaDB (or MySQL)

```
sudo apt install mariadb-server mariadb-client -y
sudo mysql_secure_installation
```

Then log into MariaDB:

```
sudo mysql -u root -p
```

Create a database and user for MediaWiki:

```
CREATE DATABASE mediawiki;
CREATE USER 'wikiuser'@'localhost' IDENTIFIED BY 'your_secure_password';
GRANT ALL PRIVILEGES ON mediawiki.* TO 'wikiuser'@'localhost';
FLUSH PRIVILEGES;
EXIT;
```

## Step 4: Download MediaWiki

```
cd /var/www/html
sudo wget https://releases.wikimedia.org/mediawiki/1.41/mediawiki-1.41.1.tar.gz
z
sudo tar -xvzf mediawiki-1.41.1.tar.gz
sudo mv mediawiki-1.41.1 mediawiki
```

## Step 5: Set Permissions

```
sudo chown -R www-data:www-data /var/www/html/mediawiki
sudo chmod -R 755 /var/www/html/mediawiki
```

## Step 6: Configure Apache

Create a new virtual host file:

```
sudo nano /etc/apache2/sites-available/mediawiki.conf
```

Paste the following:

```
<VirtualHost *:80>
    ServerAdmin admin@example.com
    DocumentRoot /var/www/html/mediawiki
    ServerName yourdomain.com

    <Directory /var/www/html/mediawiki>
        Options FollowSymLinks
        AllowOverride All
        Require all granted
    </Directory>

    ErrorLog ${APACHE_LOG_DIR}/mediawiki_error.log
    CustomLog ${APACHE_LOG_DIR}/mediawiki_access.log combined
</VirtualHost>
```

Enable the site and rewrite module:

```
sudo a2ensite mediawiki.conf
sudo a2enmod rewrite
sudo systemctl restart apache2
```

## Step 7: Run the Web Installer

Open your browser and go to:

```
http://yourdomain.com
```

Follow the on-screen instructions to:

- Connect to the database
- Set up the wiki name and admin account
- Download `LocalSettings.php`

Upload `LocalSettings.php` to `/var/www/html/mediawiki/`.

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## **Step 8: Finalize Installation**

Make sure everything is working:

```
sudo systemctl restart apache2
```

Visit your wiki and start editing!

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Would you like help setting up a custom theme or extensions for MediaWiki next?