

AI-02040 Media Wiki in Ubuntu Server

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Tags	
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I need to install Media Wiki to Ubuntu Server running on Hyper-V server. The Ubuntu server is now up and running and updated and needed the following:

1. mysql
2. PHP
3. Apache2
4. Media Wiki

List all the sudo commands I need to accomplish the installation so that Media Wiki opens to the login page.

To install MediaWiki on your Ubuntu Server, you'll need to set up the LAMP (Linux, Apache, MySQL, PHP) stack and then install MediaWiki itself. Here are the `sudo` commands to get everything running.

Update and Install Dependencies

First, update your package lists and install the necessary components: **Apache2**, **MySQL Server**, and **PHP**. The `php-cli` and `php-json` packages are standard for most PHP applications.

Bash

```
sudo apt update
sudo apt upgrade -y
sudo apt install -y apache2 mysql-server php libapache2-mod-php php-xml php-mbstring php-gd php-intl php-json
php-mysql php-apcu
```

Configure MySQL

Next, you'll need to set up a database and user for MediaWiki. Run the secure installation script to improve MySQL's security.

Bash

```
sudo mysql_secure_installation
```

Follow the prompts to set up a root password and remove test users/databases. After that, log in to MySQL as root to create the database and user. Replace `mediawiki_user` and `your_password` with your desired username and a strong password.

Bash

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

Once you are in the MySQL prompt, run the following commands.

SQL

```
CREATE DATABASE my_wiki;  
CREATE USER 'mediawiki_user'@'localhost' IDENTIFIED BY 'your_password';  
GRANT ALL PRIVILEGES ON my_wiki.* TO 'mediawiki_user'@'localhost';  
FLUSH PRIVILEGES;  
EXIT;
```

Install and Configure MediaWiki

Now, download and install the latest stable version of MediaWiki. You can find the latest version number on the official MediaWiki website. As of now, it's 1.41.0.

Bash

```
sudo apt install -y curl  
curl -O https://releases.wikimedia.org/mediawiki/1.41/mediawiki-1.41.0.tar.gz  
sudo tar -xvzf mediawiki-1.41.0.tar.gz -C /var/www/html  
sudo mv /var/www/html/mediawiki-1.41.0 /var/www/html/wiki
```

After extracting the files, change the ownership and permissions of the `wiki` directory to the **Apache user** (`www-data`) so that the web server can access and write to the files during the installation process.

Bash

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

Configure Apache

Finally, create a new **Apache virtual host configuration** for your MediaWiki site. This allows Apache to serve the content from the correct directory.

Bash

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

Paste the following configuration into the file. The `ServerName` should be your server's IP address.

Apache

```
<VirtualHost *:80>
  ServerName your_server_ip_address
  DocumentRoot /var/www/html/wiki
  <Directory /var/www/html/wiki>
    Options Indexes FollowSymLinks
    AllowOverride All
    Require all granted
  </Directory>
  ErrorLog ${APACHE_LOG_DIR}/error.log
  CustomLog ${APACHE_LOG_DIR}/access.log combined
</VirtualHost>
```

Save and close the file, then enable the new site configuration and the `rewrite` module. Restart Apache to apply the changes.

Bash

```
sudo a2ensite mediawiki.conf
sudo a2enmod rewrite
sudo a2dissite 000-default.conf
sudo systemctl restart apache2
```

After this final step, open a web browser and navigate to **http://your_server_ip_address**. You should be greeted by the MediaWiki installation page. Follow the web-based instructions to complete the setup.