

BookStack Installation and Configuration on wiki.deome.net

Overview

This page provides a complete guide to setting up BookStack on *wiki.deome.net*, including installation, configuration, database setup, and SSL configuration with Let's Encrypt.

1. Prerequisites

1. **Web Server:** Apache (refer to the Apache wiki page for installation).
2. **Database:** MariaDB (refer to the MariaDB wiki page for installation and configuration).
3. **PHP:** BookStack requires PHP 7.3 or higher. Install necessary PHP modules.

```
sudo apt install php php-mysql php-xml php-mbstring php-zip php-gd -y
```

2. Download and Install BookStack

1. **Create the Document Root Directory:**

- Create a directory for BookStack:

```
sudo mkdir -p /var/www/wiki
```

2. **Download BookStack:**

- Navigate to the web root and download the latest version:

```
cd /var/www/wiki  
sudo git clone https://github.com/BookStackApp/BookStack.git ./  
sudo git checkout release
```

3. **Set File Permissions:**

- Ensure Apache can read/write to the BookStack files:

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

3. Configure the Database

1. Log in to MariaDB:

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

2. Create Database and User:

- Create a database for BookStack:

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

4. Configure Environment Variables

1. Copy the Environment File:

- BookStack uses an `.env` file for configuration. Copy the example:

```
sudo cp .env.example .env
```

2. Edit the `.env` File:

- Open the `.env` file to configure your database and site settings:

```
sudo nano .env
```

- Update the following lines:

```
# Database configuration  
DB_HOST=localhost  
DB_DATABASE=bookstackdb  
DB_USERNAME=bookstackuser  
DB_PASSWORD=your_password  
  
# Application URL  
APP_URL=https://wiki.deome.net
```

- ### 3. Save and Close:
- Press `Ctrl + X`, then `Y`, and `Enter` to save changes.

5. Set Up Apache Virtual Host for wiki.deome.net

1. Create the Virtual Host File:

```
sudo nano /etc/apache2/sites-available/wiki.deome.net.conf
```

2. Configure the Virtual Host:

- Add the following configuration:

```
<VirtualHost *:80>
    ServerName wiki.deome.net
    DocumentRoot /var/www/wiki/public
    <Directory /var/www/wiki/public>
        AllowOverride All
        Require all granted
    </Directory>
    ErrorLog ${APACHE_LOG_DIR}/wiki_error.log
    CustomLog ${APACHE_LOG_DIR}/wiki_access.log combined
</VirtualHost>
```

3. Enable the Site and Rewrite Module:

```
sudo a2ensite wiki.deome.net.conf
sudo a2enmod rewrite
sudo systemctl reload apache2
```

6. Set Up SSL with Let's Encrypt

1. Install Certbot:

- If Certbot is not already installed:

```
sudo apt install certbot python3-certbot-apache -y
```

2. Generate SSL Certificate:

```
sudo certbot --apache -d wiki.deome.net
```

3. Auto-Renewal Setup:

- Certbot will auto-renew SSL certificates by default. To verify:

```
sudo certbot renew --dry-run
```

7. Complete BookStack Setup

1. Run the BookStack Installation Commands:

- Navigate to the BookStack directory and run the following commands to finish the setup:

```
cd /var/www/wiki  
sudo -u www-data php artisan key:generate --force  
sudo -u www-data php artisan migrate --force
```

2. Set Permissions (again, if necessary):

- Ensure permissions are still correct after setup:

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

8. Testing and Verification

1. Access BookStack:

- Go to `https://wiki.deome.net` in your web browser.
- Follow the on-screen instructions to set up the admin account.

2. Check Logs:

- Monitor Apache logs if there are any issues:

```
sudo tail -f /var/log/apache2/wiki_access.log  
sudo tail -f /var/log/apache2/wiki_error.log
```

9. Ongoing Maintenance

1. Database Backups:

- Set up a cron job to regularly back up the BookStack database:

```
mysqldump -u root -p bookstackdb > /path/to/backup/bookstackdb.sql
```

2. Updating BookStack:

- Periodically pull the latest updates from the BookStack repository:

```
cd /var/www/wiki  
sudo -u www-data git pull origin release  
sudo -u www-data php artisan migrate --force
```

This setup guide for BookStack covers installation, configuration, and basic maintenance. Let me know if you'd like additional details or specific troubleshooting steps included!

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