Piwigo Installation and Configuration on gallery.deome.net

Overview

This page provides step-by-step instructions to install and configure Piwigo as a photo gallery on *gallery.deome.net*. This includes setting up the Apache virtual host, database configuration, and SSL with Let's Encrypt.

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1. Prerequisites

1. **Web Server**: Apache (see Apache wiki page).
2. **Database**: MariaDB (refer to MariaDB setup page).
3. **PHP**: Ensure PHP is installed along with the necessary modules:

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

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2. Download and Install Piwigo

1. **Create the Document Root Directory**:
   - Create a directory for Piwigo:

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

2. **Download Piwigo**:
   - Navigate to the gallery directory and download the latest Piwigo release:

```
cd /var/www/gallery
sudo wget https://piwigo.org/download/dlcounter.php?code=latest -O piwigo.zip
sudo unzip piwigo.zip
sudo mv piwigo/* ./
sudo rm -rf piwigo piwigo.zip
```

3. **Set File Permissions**:
   - Make sure Apache has the correct permissions to access and modify the files:

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

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3. Configure the Database

1. **Log in to MariaDB**:

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

2. **Create a Database and User for Piwigo**:

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

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4. Configure Apache Virtual Host for gallery.deome.net

1. **Create the Virtual Host File**:
   - Open a new virtual host configuration file for *gallery.deome.net*:

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

2. **Add the Virtual Host Configuration**:
   - Use the following configuration:

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

```
</VirtualHost>
```

3. **Enable the Site and Rewrite Module**:
   - Enable the virtual host and rewrite module, then reload Apache:

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

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5. 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**:
   - Use Certbot to obtain an SSL certificate for *gallery.deome.net*:

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

3. **Enable Auto-Renewal**:
   - Certbot will automatically handle renewal. Test the setup with:

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

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6. Complete Piwigo Setup

1. **Access the Piwigo Installation Wizard**:
   - Open a browser and go to `https://gallery.deome.net`. You should see the Piwigo setup wizard.
2. **Follow the Setup Wizard**:
   - Enter the database information:
     - **Database Name**: `piwigodb`
     - **Database User**: `piwigouser`
     - **Database Password**: `your_password`
   - Configure the admin account and complete the setup.

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7. Testing and Verification

1. **Access Piwigo**:
   - Verify that Piwigo loads correctly at `https://gallery.deome.net`.

2. **Check Logs**:
   - Monitor the Apache logs if any issues arise:

```
sudo tail -f /var/log/apache2/gallery_access.log
sudo tail -f /var/log/apache2/gallery_error.log
```

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8. Maintenance and Updates

1. **Database Backup**:
   - Set up regular database backups:

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

2. **Updating Piwigo**:
   - Periodically check for updates in the Piwigo admin dashboard.

This setup should get Piwigo running smoothly on *gallery.deome.net*. Let me know if you need any specific configurations or additional settings!

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