

Introduction

Docker with PHP and Caddy for Deployer

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A modern Docker setup for hosting PHP websites with Caddy web server and SSH access for Deployer deployments.

Current PHP version: 8.5.

The latest supported, and recommended, [PHP version is 8.5](#). If you need to use another version, please use the [docker-php7.4-caddy-server](#), [docker-php8.3-caddy-server](#) or [docker-php8.4-caddy-server](#) repositories. Remember change the PHP version in the examples below.

Features

- **Multiple PHP versions:** Supported PHP versions with common extensions: [7.4](#), [8.3](#), [8.4](#) and [8.5](#).
- **Caddy:** Modern web server with automatic HTTPS.
- **SSH Access:** For automated deployments with Deployer.
- **Automatic Site Discovery:** Just add your site folder and it works.
- **Development Domains:** Test with .local domains that map to production folders.
- **Automatic WWW Redirection:** For second-level domains (e.g., example.com → [www.example.com](#)).
- **Auto-HTTPS:** Certificates are automatically generated on-demand.
- **Environment Separation:** Development and production environments can be managed through Docker Compose override.

Quick Start

Prerequisites

- Docker and Docker Compose installed on your system.
- SSH key for deployment access.

Setup

1. Clone this repository:

```
git clone https://github.com/derafu/docker-php8.5-caddy-server.git
cd docker-php8.5-caddy-server
```

2. Add your SSH public key to config/ssh/authorized_keys for admin, and default deployment, access:

```
cat ~/.ssh/id_rsa.pub > config/ssh/authorized_keys
```

3. Build and start the container:

```
docker-compose up -d
```

The `-d` parameter runs it in detached mode (background).

Verification

Check that the container is running:

```
docker-compose ps
```

View container logs:

```
docker-compose logs -f
```

The `-f` parameter allows you to follow logs in real-time.

Testing Your First Site

1. Create a test site directory structure:

```
mkdir -p sites/www.example.com/public
echo "<?php phpinfo();" > sites/www.example.com/public/index.php
```

2. Access the site at:

- Production mode: <https://www.example.com> (requires DNS configuration).

- Development mode: <https://www.example.com.local:8443> (requires local hosts entry).

For local development, add to your `/etc/hosts` file:

```
127.0.0.1 www.example.com.local
```

Directory Structure

```
docker-php8.5-caddy-server/
├── config/                    # Configuration files.
│   ├── caddy/                # Caddy configuration.
│   ├── php/                  # PHP configuration.
│   ├── ssh/                  # SSH configuration and authorized keys.
│   └── supervisor/           # Supervisor configuration.
├── sites/                    # Web sites directory for local development.
│   └── www.example.com/      # Example site.
│       └── public/           # Public web files.
├── .env                      # Docker Compose environment configuration.
├── Dockerfile                # Container definition.
├── docker-compose.yml         # Docker services configuration (production).
└── docker-compose.override-example.yml # Development-specific configuration.
```

Development vs Production Environment

This project uses Docker Compose's override functionality to separate different configurations.

Usage:

- **Development:** Rename `docker-compose.override-example.yml` to `docker-compose.override.yml` and then Docker Compose automatically merges both files:

```
docker-compose up -d
```

- **Production:** Use only the base configuration (with `-f` or not creating the `docker-compose.override.yml` file):

```
docker-compose -f docker-compose.yml up -d
```

Access and Management

SSH Access

Connect to the container via SSH:

```
ssh admin@localhost -p 2222
```

Direct Container Access

Access the container shell:

```
docker exec -it derafu-sites-server-php-caddy bash
```

Restarting Services

Restart Caddy web server:

```
docker exec -it derafu-sites-server-php-caddy supervisorctl restart caddy
```

Stopping the Container

```
docker-compose down
```

Rebuilding After Configuration Changes

Rebuild for development:

```
docker-compose build --no-cache  
docker-compose up -d
```

Rebuild for production:

```
docker-compose -f docker-compose.yml build --no-cache  
docker-compose -f docker-compose.yml up -d
```

Adding New Sites

1. Create the site directory structure:

```
mkdir -p sites/www.newsite.com/public
touch sites/www.newsite.com/public/index.php
```

2. No server restart required! Caddy automatically detects new sites.

3. For local development, add to your hosts file:

```
127.0.0.1 www.newsite.com.local
```

Environment Variables

Customize behavior through environment variables:

Variable	Description	Default
SERVER_NAME	Name for the docker container	derafu-sites-server
CADDY_DEBUG	Enable debug mode with debug	(empty)
CADDY_EMAIL	Email for Let's Encrypt	admin@example.com
CADDY_HTTPS_ISSUER	TLS issuer (internal, acme)	internal
CADDY_HTTPS_ALLOW_ANY_HOST	Allow any host for TLS	false
CADDY_LOG_SIZE	Log file max size	100mb
CADDY_LOG_KEEP	Number of log files to keep	5
WWW_ROOT_PATH	Web root path	/var/www/sites
WWW_USER	WWW and SSH user in the container	admin
WWW_GROUP	WWW group in the container	www-data
HTTP_PORT	HTTP port in host	8080
HTTPS_PORT	HTTPS port in host	8443
SSH_PORT	SSH port in host	2222

Domain Logic

The server handles domains in the following way:

- Development domains:** Any domain ending with `.local` (e.g., `www.example.com.local`)
 - Maps to the same directory as its production counterpart.

- Uses internal self-signed certificates.

2. Production domains:

- Redirects from non-www to www for second-level domains.
- Automatically obtains and manages Let's Encrypt certificates (issuer `acme`).

Troubleshooting

SSL Certificate Issues

If you're having issues with SSL certificates in development:

- Ensure your browser trusts self-signed certificates.
- Try using HTTP instead of HTTPS for local development.

Permissions Issues

If you encounter permission issues:

```
docker exec -it derafu-sites-server-php-caddy chown -R admin:www-data /var/www/sites
```

Logs Location

Logs are available in the container and can be accessed with:

```
docker exec -it derafu-sites-server-php-caddy cat /var/log/caddy/access.log
```

Advanced Usage

Custom Caddy Configuration

For advanced configurations, modify the Caddyfile at `config/caddy/Caddyfile`.

Using with Deployer

This container is designed to work with [Deployer](#) for PHP deployments:

1. Set up your `deploy.php` configuration to connect to the SSH server on port 2222.
2. Use the `admin` user for authentication.
3. Set your deployment path to `/var/www/sites/www.yoursite.com`

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