# HOW TO CREATE A WORDPRESS ENVIRONMENT USING DOCKER COMPOSE

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## INTRODUCTION

Using Docker Compose is a fast and efficient way to set up a WordPress environment with all the required software.

#### IMPORTANT TERMS

The following are important terms to understand when using Docker Compose:

- **Container** an executable package that includes everything needed to run a piece of software.
- **Dockerfile** a text file that defines all components that will be installed in a Docker environment.
- Image a template that contains instructions on how to build a Docker container.
- Volume a dedicated folder on the host machine that stores data about the Docker environment. A volume lets you share data across multiple containers.

### DOCKER INSTALLATION

To install docker on your machine:

- 1. Install the Docker desktop client for your platform (i.e. Windows, Mac, Linux) a. <u>https://www.docker.com/</u>
- 2. Create a folder on your machine that will hold your Docker WordPress environment (for example, docker-local-wordpress).

#### CREATE AN ENVIRONMENT FILE

Your WordPress environment requires credentials that should not be committed to source control for security reasons. It's a best practice to define the needed credentials in a separate .env file that your Docker Compose file can reference.

In your docker project directory create a .env file with the following variables that will be used for your WordPress instance:



### CREATE DOCKER COMPOSE FILE

In the directory you created for your WordPress instance create a file called **docker-compose** (no file extension) and enter the following content:



Note: Update the version variable to the latest WordPress version.

To start Docker using your docker compose file, open a terminal from within your docker directory and run the following command:

docker-compose up -d

#### Navigating to WordPress and PhpMyAdmin

Once your container is up and running, in Docker Desktop under **Containers** click the links under **Ports** column in your container to open the PhpMyAdmin console and WordPress console respectively.

	Name	Image	Status	Port(s)	CPU (%)	Last started	Actions		
		mariadb-' 90ad28df4 mariadb:latest	Running		0.03%	7 minutes ago	•	:	8
	۲	27e9bd598 phpmyadmin/phpm	Running	8080:80	0%	7 minutes ago	•	:	
		aa5cff56b7 wordpress:latest	Running	8000:80	0.01%	7 minutes ago	•	:	

After opening the WordPress console for the first time complete the WordPress installation wizard.

To stop the Docker container, open a terminal from within your Docker directory and run the following command:

#### docker compose down

Note: After initially starting your container using the command line, containers can be stopped and started using the Docker Desktop UI.