

Installing DDEV on macOS

This guide provides a comprehensive, step-by-step process for installing DDEV on a macOS system.

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Prerequisites

Ensure your macOS system meets these requirements:

- macOS 10.14 (Mojave) or newer
- At least 4GB of RAM (8GB or more recommended)
- Intel or Apple Silicon (M1/M2) processor

Install Homebrew

Homebrew is a package manager for macOS that we'll use to install DDEV and its dependencies.

1. Open Terminal.
2. Install Homebrew by running:

```
/bin/bash -c "$(curl -fsSL  
https://raw.githubusercontent.com/Homebrew/install/HEAD/install.sh)"
```

3. Follow the on-screen instructions to complete the installation.

After installation, add Homebrew to your PATH:

```
echo 'eval "$(/opt/homebrew/bin/brew shellenv)"' >> ~/.zprofile  
eval "$(/opt/homebrew/bin/brew shellenv)"
```

Install Docker Desktop

1. Visit the [Docker Desktop for Mac download page](#).
2. Download the appropriate version for your Mac (Intel or Apple Silicon).
3. Open the downloaded .dmg file and drag the Docker app to your Applications folder.
4. Open Docker from your Applications folder.
5. When prompted, authorize Docker to make changes to your system.
6. Wait for Docker to start. You'll see the Docker icon in the menu bar when it's ready.

Install DDEV

There are two methods to install DDEV on macOS: using Homebrew or using a script.

Method 1: Using Homebrew (Recommended)

1. Open Terminal.
2. Run the following command:

```
brew install drud/ddev/ddev
```

Method 2: Using Installation Script

If you prefer not to use Homebrew, you can use the installation script:

1. Open Terminal.
2. Run the following command:

```
curl -fsSL  
https://raw.githubusercontent.com/drud/ddev/master/scripts/install_ddev.sh  
| bash
```

Configure DDEV

1. Set up global configuration (optional but recommended):

```
ddev config global
```

2. Follow the prompts to configure global settings.

Verify Installation

1. Check the installed version of DDEV:

```
ddev --version
```

2. You should see output indicating the installed DDEV version.

Troubleshooting

If you encounter any issues during installation or use of DDEV, try these steps:

1. Docker Desktop Issues:

- Ensure Docker Desktop is running. You should see the Docker icon in the menu bar.
- If Docker isn't starting, try restarting your Mac.
- Check Docker Desktop preferences to ensure it has necessary permissions.

2. DDEV Command Not Found:

- If you installed via Homebrew, run `brew doctor` to check for any issues.
- Ensure the DDEV binary is in your PATH. Run `echo $PATH` to check.
- Try restarting your Terminal session.

3. Performance Issues:

- In Docker Desktop preferences, adjust the resources (CPU, Memory) allocated to Docker.
- For Intel Macs, ensure VirtioFS is enabled in Docker Desktop preferences for better file system performance.

4. Network Issues:

- Check if required ports (80, 443) are available: `sudo lsof -i:80 -i:443`
- If they're in use, identify and stop the processes using them.

5. Homebrew Issues:

- Run `brew update` and `brew upgrade` to ensure Homebrew and its packages are up to date.

6. General Troubleshooting:

- Run `ddev poweroff` and then `ddev start` to restart all DDEV projects.
- Check DDEV logs with `ddev logs` for any error messages.

7. Mac-specific Issues:

- For Apple Silicon (M1/M2) Macs, ensure you're using the ARM64 version of Docker Desktop.
- If you're using Rosetta 2 for any reason, be aware it might affect DDEV performance.