

Installing DDEV on Linux

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

Installing DDEV on Linux	1
Prerequisites	1
Install Docker	1
Install Docker Compose	3
Install DDEV	3
Configure DDEV	4
Verify Installation	4
Troubleshooting	4

Prerequisites

Ensure your Linux system meets these requirements:

- A supported Linux distribution (Ubuntu, Debian, Fedora, CentOS, etc.)
- sudo access
- curl or wget installed
- git installed

Install Docker

The exact steps may vary depending on your Linux distribution. Here are instructions for Ubuntu/Debian:

1. Update your package index:



```
sudo apt update
```

2. Install packages to allow apt to use a repository over HTTPS:

```
sudo apt install apt-transport-https ca-certificates curl  
software-properties-common
```

3. Add Docker's official GPG key:

```
curl -fsSL https://download.docker.com/linux/ubuntu/gpg | sudo gpg --dearmor  
-o /usr/share/keyrings/docker-archive-keyring.gpg
```

4. Set up the stable repository:

```
echo "deb [arch=amd64  
signed-by=/usr/share/keyrings/docker-archive-keyring.gpg]  
https://download.docker.com/linux/ubuntu $(lsb_release -cs) stable" | sudo tee  
/etc/apt/sources.list.d/docker.list > /dev/null
```

5. Update the package index again:

```
sudo apt update
```

6. Install Docker Engine:

```
sudo apt install docker-ce docker-ce-cli containerd.io
```

7. Add your user to the docker group to run Docker without sudo:



```
sudo usermod -aG docker $USER
```

8. Log out and log back in for the group changes to take effect.

Install Docker Compose

1. Download the current stable release of Docker Compose:

```
sudo curl -L  
"https://github.com/docker/compose/releases/download/v2.18.1/docker-compose  
-$(uname -s)-$(uname -m)" -o /usr/local/bin/docker-compose
```

2. Apply executable permissions:

```
sudo chmod +x /usr/local/bin/docker-compose
```

3. Verify the installation:

```
docker-compose --version
```

Install DDEV

1. Run the following command to download and install DDEV:

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

This script will download and install the latest version of DDEV.

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 Issues:**
 - Ensure Docker is running: `sudo systemctl status docker`
 - If it's not running, start it: `sudo systemctl start docker`
 - Ensure your user is in the docker group: `groups $USER`
 - If not, add it and log out/in: `sudo usermod -aG docker $USER`
2. **Docker Compose Issues:**
 - Verify Docker Compose installation: `docker-compose --version`
 - If not found, reinstall following the steps in this guide
3. **DDEV Command Not Found:**
 - Ensure the DDEV binary is in your PATH
 - Try sourcing your .bashrc or .zshrc file: `source ~/.bashrc`

4. **Permission Issues:**

- DDEV should be run as a normal user, not root. Ensure you're not using `sudo` with DDEV commands.

5. **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

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