

How to Use Docker Compose

Purpose

Learn how to define and manage multiple Docker containers using a simple YAML configuration file with Docker Compose.

1. Install Docker Compose

If you don't already have Docker Compose installed, install it:

bash

```
sudo apt update
sudo apt install docker-compose-plugin -y
```

2. Create a Docker Compose File

Create a directory for your project and add a `docker-compose.yml` file inside it:

bash

```
mkdir my-project
cd my-project
nano docker-compose.yml
```

Example `docker-compose.yml`:

yaml

```
version: '3'

services:
  web:
    image: nginx
```

```
ports:
  - "8080:80"
```

3. Start the Application

Use Docker Compose to bring up your containers:

bash

```
docker compose up -d
```

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

4. Stop the Application

When you want to stop and remove all containers defined in the Compose file:

bash

```
docker compose down
```

? Summary

- **Compose simplifies** multi-container deployments with a single file.
 - **Use volumes** inside `docker-compose.yml` to persist your data.
 - **Keep your Compose files** under version control (like Git) for easy recovery and updates.
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