How to Use Docker Compose

Purpose

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

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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
```

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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

```yaml
version: '3'

services:
  web:
    image: nginx
    ports:
      - "8080:80"
```

---

3. Start the Application

Use Docker Compose to bring up your containers:

bash

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

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

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4. Stop the Application

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

bash

```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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