

Docker Commands for FastAPI

Building & Managing Images

1. Build Docker Image:

```
docker build -f Dockerfile.dev -t my-dev-image .
```

1. List Docker Images:

```
docker images
```

1. Inspect Docker Image:

```
docker inspect my-dev-image
```

Running & Managing Containers

1. Run Container (Interactive Mode):

```
docker run --name dev-cont1 -it my-dev-image
```

1. Run Container (Detached Mode with Port Mapping):

```
docker run -d --name dev-cont1 -p 8000:8000 my-dev-image
```

1. Check Running Containers:

```
docker ps
```

1. Check All Containers (Including Stopped Ones):

```
docker ps -a
```

1. View Container Logs:

```
docker logs dev-cont1
```

1. View Container Logs in Real-Time:

```
docker logs -f dev-cont1
```

1. Stop a Running Container:

```
docker stop dev-cont1
```

1. Remove a Container:

```
docker rm dev-cont1
```

Rebuilding & Removing Images

1. **Rebuild Docker Image (If Code Changes):**

`docker build -f Dockerfile.dev -t my-dev-image .`

1. **Remove Old Image (If Necessary):**

`docker rmi my-dev-image`

Testing FastAPI API

1. **Testing API (From Host Machine - Windows):**

`curl http://localhost:8000`

Or open your browser and visit:

`http://localhost:8000`

1. **Access FastAPI Docs:**

- **Swagger UI:** <http://localhost:8000/docs>
- **ReDoc:** <http://localhost:8000/redoc>