

HOSTELIX PRO

Docker Deployment Guide

1. Prerequisites

You need **Docker Desktop** installed and running.

- Download: docker.com/products/docker-desktop
- Verify: `docker --version`

2. Quick Start (Windows)

We have provided a one-click script:

- Double-click **run_docker.bat** in the project root folder.
- Wait for containers to build and start.
- Look for `[INFO] Listening at: http://0.0.0.0:3000`.

3. Manual Start (All Platforms)

```
cd project/backend
docker-compose up --build
```

To run in background:

```
docker-compose up --build -d
```

4. Architecture

Service	Port	Description
backend	3000	Flask API (Gunicorn)
db	5432	PostgreSQL 15
redis	6379	Redis 7

■ **TIP:** Database data is persisted in Docker volume `postgres_data`. It survives restarts.

5. Default Credentials

The database is seeded with these test accounts:

Role	Email	Password
Admin	admin@example.com	TestPass123
Teacher	teacher@example.com	TestPass123
Routine Mgr	routine@example.com	TestPass123

Role	Email	Password
Student	student1@example.com	TestPass123

■■ NOTE: To run admin setup manually: `docker-compose exec backend python admin_setup.py`

6. Managing the Environment

View Logs

```
docker-compose logs -f backend
```

Reset Database (Fresh Start)

```
docker-compose down -v  
docker-compose up -d
```

The **-v** flag removes the data volume.