

# Docker Deployment Guide

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## Structure

```
ML0ps/  
├── backend/src/  
│   ├── Dockerfile  
│   ├── requirements.txt  
│   ├── api.py  
│   └── preprocessing_fraud_class.py  
├── frontend/  
│   ├── Dockerfile  
│   ├── requirements.txt  
│   └── front.py  
├── notebooks/  
│   ├── processors/  
│   └── model_registry/  
└── docker-compose.yml
```

## Build Commands

### Build all services

```
docker-compose build
```

### Build specific service

```
docker-compose build backend  
docker-compose build frontend
```

## Run Commands

### Start all services

```
docker-compose up
```

### Start in detached mode (background)

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

## View logs

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

## Stop services

```
docker-compose down
```

## Stop and remove volumes

```
docker-compose down -v
```

## Access

- **Backend API:** <http://localhost:8000>
- **API Documentation:** <http://localhost:8000/docs>
- **Frontend UI:** <http://localhost:8501>

## Troubleshooting

### Rebuild without cache

```
docker-compose build --no-cache
```

### Remove all containers and images

```
docker-compose down --rmi all
```

### Check service health

```
docker-compose ps
```