

Admin User

Role: Administrator

- CRUD Users
- CRUD Devices
- Assign Devices

Client User

Role: Client

- View Devices
- Read-only

HTTPS/HTTP
Port 80

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Port 80

Docker Host Machine

Docker Network: microservices-network

Container: Traefik API Gateway v3.2

Ports: 80, 8080

Routes:

- /api/auth/* → Auth
- /api/users/* → User
- /api/devices/* → Device
- /* → Frontend

HTTP
Port 80

HTTP REST
Port 8000

Container: Frontend
React 19 + Nginx

Port: 80

Technology:

- React 19
- TypeScript
- Vite
- Tailwind CSS

HTTP REST
Port 8002

HTTP REST
Port 8001

Container: Auth Service
Django 5.0 + DRF

Port: 8000

Database: auth_db

JWT Authentication

Swagger: /api/docs/

HTTP REST
Saga Pattern

HTTP REST
Saga Pattern

Container: Device Service
Django 5.0 + DRF

Port: 8002

Database: device_db

Device Management

Swagger: /api/docs/

Container: User Service
Django 5.0 + DRF

Port: 8001

Database: user_db

User Management

Swagger: /api/docs/

JDBC
auth_db

JDBC
device_db

JDBC
user_db

Container: PostgreSQL Database
v15-alpine

Port: 5432

Databases:

- auth_db
- user_db
- device_db

Volume: postgres_data