

# Docker Connection & Health Check Guide

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This document explains how to interact with the various Docker containers that power the Local Food AI system.

## Starting the Stack

To start the application and all its microservices:

```
# Standard environment
docker-compose up -d

# Windows / WSL environment (if applicable)
docker-compose -f docker-compose-wsl.yml up -d
```

## Connecting to Specific Containers

### 1. MySQL Database

To access the MySQL shell directly:

```
docker exec -it food-mysql-1 mysql -u root -p
```

*Note: The password is defined in your .env file (MYSQL\_ROOT\_PASSWORD).*

### 2. Ollama (AI Engine)

To manage LLM models or test the AI engine:

```
docker exec -it food-ollama-1 bash
# Inside the container, you can run:
# ollama list
# ollama run qwen2.5:1.5b
```

### 3. SearXNG (Web Search)

To view the SearXNG logs if the web search context is failing:

```
docker logs -f food-searxng-1
```

### 4. Zabbix (Telemetry)

If you need to access the Zabbix server or agent:

```
docker exec -it food-zabbix-server-1 bash
```

# Health Checks

You can verify that all application components are working using:

```
docker ps
```

Look for `Up (healthy)` in the `STATUS` column for the `mysql` service, and ensure `food-app-1` (Streamlit) is running without restarting.