

Build and Deploy Documentation

You can find the current Build-Documentation in our github wiki here:

<https://github.com/amosproj/amos2023ss01-apache-pulsar-ui/wiki/Build-Documentation>

To meet the requirements of the sprint, we also transformed the state of the wiki from 30.05.2023 to this pdf.

Frontend

Please make sure you have nodejs(version >= 18), yarn, and docker installed.

To run **development server**, run the following command in the frontend directory:

```
yarn install && yarn run start
```

The application is running on localhost:8081

To **build** the frontend, we use docker. Run the following command in the **frontend** directory:

```
docker build -t [the_tag_of_image] .
```

Backend

Please make sure you have a Java SDK 17.0.1 or higher as well as Docker installed.

To **build** the application JAR, run the following command in the **backend** directory:

```
./mvnw package -DskipTests
```

To **deploy** the application together with a pulsar instance, start Docker Desktop and run the following command in the root-directory:

```
docker-compose --profile demodata --profile backend up --build
```

Notes:

- **--build** is needed for the first startup, or when the application or the demodata docker images are changed
- **--profile demodata** is needed when you want to create the demo topology and start the demo producers & consumers, that will continuously send and receive messages
- **--profile backend** is needed when you want to start the backend via the docker-compose setup. See below for starting it manually.

Starting the backend separately

If you want to start the backend individually (e.g. during development), simply omit the `--profile backend` from the docker-compose command. Instead, start the application from the `backend` directory with:

```
./mvnw spring-boot:run
```