

# Container & Service-oriented architectures

## Setup of your machine

### Install docker and an IDE

1. Download and install Docker Desktop<sup>1</sup>.
2. Download and install IntelliJ Ultimate<sup>2</sup>.
3. Optional: get an IntelliJ Ultimate Student License<sup>3</sup>.
4. Install the IntelliJ Docker plugin<sup>4</sup>.

### Set up a local development directory

1. Create a dedicated project folder for the workshop.
2. Create an empty IntelliJ Project: IntelliJ Window: File -> New -> Project from existing sources -> select the freshly created directory.
3. Open the folder in you PowerShell (Windows)/ Terminal (macos/Linux).
4. Execute the following commands. The second command should give you an output, that is needed to take part in the workshop.
5. Post the *return text of the second command* **plus** your operating system to the Teams Group.

*## Get a container for the workshop, this could take a while.*

```
docker run --rm -d --name workshopContainer -it herrsorgenfrei/iac_workshop:latest
```

*## Copy the output of this command to the Microsoft Teams group*

```
docker exec -it workshopContainer bash -c 'date && cat /tmp/test.txt'
```

*## stop the container*

```
docker stop workshopContainer
```

6. If you have problems setting this up, reach out to a fellow student who can help you! In case you are not able to set it up together, reach out to me (latest 72h before start of the workshop).
7. Ensure that your system is set up *before* the workshop on Monday. No further set up help/discussion will happen during the workshop. Thanks

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<sup>1</sup><https://www.docker.com>

<sup>2</sup><https://www.jetbrains.com/de-de/idea/download>

<sup>3</sup><https://www.jetbrains.com/de-de/community/education/#students>

<sup>4</sup><https://plugins.jetbrains.com/plugin/7724-docker>

## **Timetable**

### **Prepare the workshop**

Participants of the workshop go through this document and prepare their systems to be ready to take part in the workshop.

*Until 5.6.2025*

### **Workshop Part 1**

5.6.2025, 9:30 - 12:15

Onsite - Intro to the topic of containers - Docker basics, working with the docker client cli

### **Homework**

5.6.2025

### **Workshop Part 2**

6.6.2025, 9:30 - 12:15

Remote via Microsoft Teams