

# How to build YADE from the sources

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## Scope

- This documentation explains how to download and compile the sources for YADE.
- The sources have to be downloaded from the Git Repositories at <https://github.com/sos-berlin>
- Additional tools will be referenced in this documentation if required to compile the sources.

## Prerequisites

The prerequisites and additional tools required for compiling YADE are the same ones as for compiling JobScheduler, see [Build JobScheduler Engine - Prerequisites](#)

## Download from the Source Repositories

Prepare a folder in your file system, where you can clone the repositories to. In order to compile YADE, you have to compile all three projects at least once before you can compile YADE on its own. This is necessary for the YADE build to be able to resolve its dependencies from your local maven repository.

In order to do that, you have to first clone the three repositories, as explained in [Download from the Source Repositories](#).

## Building the Projects

### Preparation and build order

After having cloned the repositories, you can build the projects. Before that, you need to download some libraries that are required for the Build process, see [Preparation](#).

Now you should be able to build the projects (as explained in [Build order](#)), so that afterwards you are able to build just YADE.

For building the YADE project, follow these instructions:



#### Compile JADE

In case you just wanted to compile YADE, switch to the folder you have downloaded the `all/jade` project to, which looks somewhat like `C:\MY_GIT_REPOS\all\jade` or `/home/MY_ACCOUNT/MY_GIT_REPOS/all/jade`.

Type `mvn clean install` on the command line for building the project including all internal tests - these are tests developed by SOS that check different functionalities of the compiled sources. If these tests are not relevant for you, compile it the following way: `mvn clean install -DskipTests`.

### Generated libraries location

After the build has completed you find all created .jar files in

1. the target folder under each project and subproject.
2. the local /m2 repository in your home folder (`%USERPROFILE%\m2\repository\com\sos-berlin` or `$HOME/.m2/repository/com/sos-berlin`)

At this point you already have all the library files to update an existing YADE installation in your system.

## Support

You can find [here](#) the information related to support for the different license types.

# Troubleshooting

In case you got errors when building YADE, please see the common errors documented in [Troubleshooting](#)