

# Repost Spring

This is the Spring Boot implementation of the Repost API.

## Installation

A version of the Java JDK must be installed.

[OpenJDK 11 \(https://openjdk.java.net/projects/jdk/11/\)](https://openjdk.java.net/projects/jdk/11/) was used when creating the project and is therefore recommended. Below are the steps for building and deploying the API. These instructions are only for a Linux build.

1. Clone the repository:

```
git clone https://github.com/EspenK/repost-spring.git
```

2. Navigate to the `repost-spring` directory. Make the `mvnw` file executable. This is an instanced version of the [Apache Maven \(https://maven.apache.org/\)](https://maven.apache.org/) build tool.

```
cd repost-spring
chmod +x mvnw
```

3. Package a JAR file using the Maven tool. This will also install the required dependencies.

```
./mvnw package
```

4. Copy the default configuration file to the root folder. See [Configurations](#) for more information.

```
cp src/main/resources/application.properties user.properties
```

## Configurations

Configurations are set using a properties file. See step 4 above for copying this file to the root directory of the project for further use.

- **server.port** - Change this to use a different port for the API
- **repost.signing-key** - The secret key used for [JSON Web Tokens \(https://jwt.io/\)](https://jwt.io/)
- **repost.client\_id** - The OAuth2 `client_id`
- **repost.origins[0]** - A [CORS \(https://en.wikipedia.org/wiki/Cross-origin\\_resource\\_sharing\)](https://en.wikipedia.org/wiki/Cross-origin_resource_sharing) URL. Use `repost.origins[1]` etc for multiple allowed origins

## Using PostgreSQL as a database

First add a `#` symbol before the properties `spring.datasource.driverClassName` and `spring.jpa.database-platform` as they are not needed for PostgreSQL. Set the appropriate database username and password using the `spring.datasource.username` and `spring.datasource.password` properties. Finally set the database connection URL with the `spring.datasource.url` property. Example:

```
#spring.datasource.driverClassName=org.h2.Driver
spring.datasource.url=jdbc:postgresql://localhost:5432/DATABASE_NAME
spring.datasource.username=USERNAME
spring.datasource.password=PASSWORD
#spring.jpa.database-platform=org.hibernate.dialect.H2Dialect
```

## Running the API

The API can now be executed using a java runtime. Make sure to replace **ROOT\_PATH** below with an absolute path to your cloned project directory.

```
java -jar target/repost-0.0.1-SNAPSHOT.jar --
spring.config.location=file:///ROOT_PATH/user.properties
```