

# Install OpenAthens SP on Java

## Prerequisites

- A server running Java with relevant environment variables set (e.g. JAVA-HOME)
- Server time synced with NTP or equivalent
- Familiarity with your chosen platform
- Access to the [publisher dashboard](#).

## Method

1. Install OpenAthens software
  - a. The recommended method is to use our Maven repository. For connection details see: [Maven settings for Java OASP](#)
  - b. The software is also available as a zip file from our service desk. You will need to manually move jar files to [the correct location and set environment variables](#).
2. Create metadata keys. These are used for signing and encrypting SAML exchanges. The public key will be published in metadata.
  - a. [Using Keystore Explorer](#)
3. If you have not already done so, [create an application in the publisher dashboard](#). You will have the opportunity to paste in the signing certificate you generated in the previous step when you set it up.
  - a. If this is for an existing application, open the application in the dashboard and go to the getting started tab to paste in your signing certificate.
4. Configure your `web.xml` file. The publisher dashboard will have generated a configuration to copy and paste. In the file you will also need to:
  - a. Update the protected location to cover your application.
  - b. Restart your web server to download the configuration from the publisher dashboard and start using it.

## Configure your application

See [OpenAthens SP common](#)

## Advanced

When there will be more than one organisation accessing by this method, such as in a federation, you would usually restrict access by checking the users' scope. See: [Attribute based authorisation on Java](#)