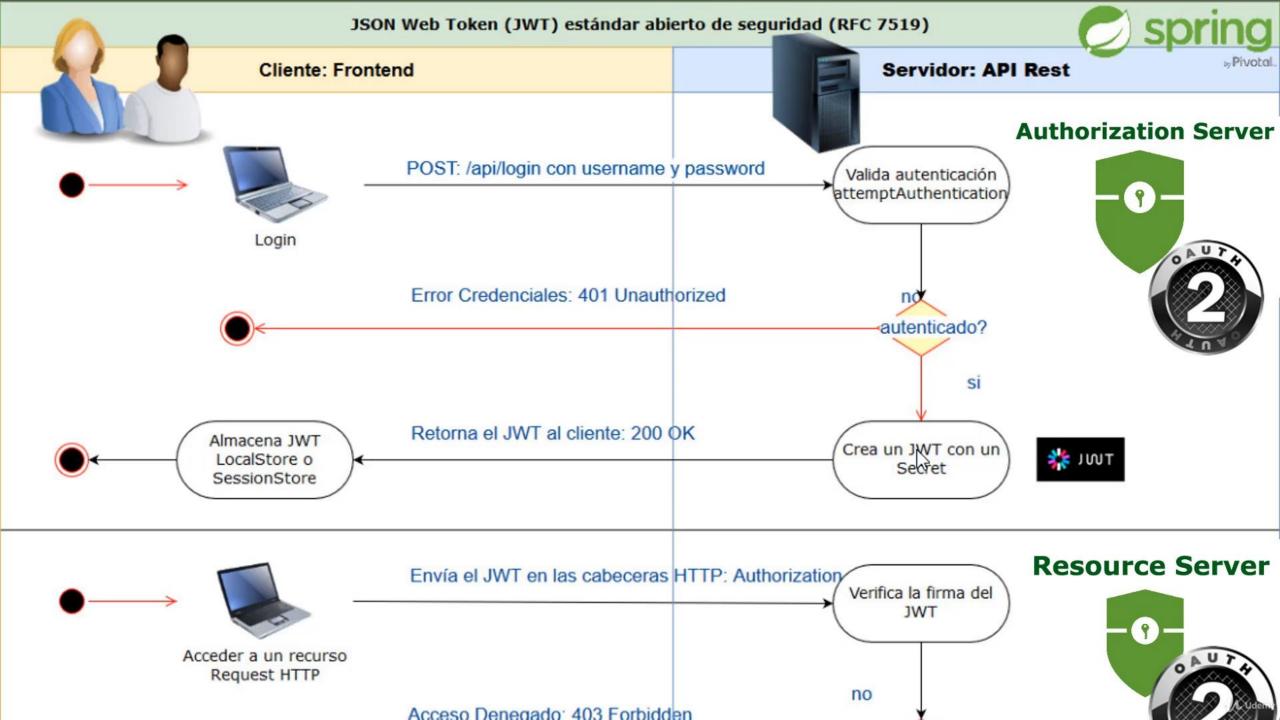
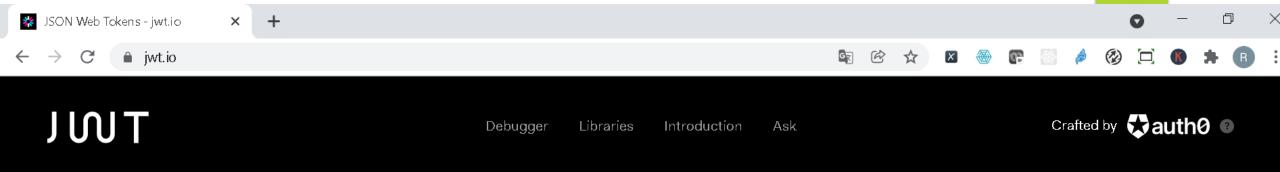
Que es JWT

- En el mismo se define un mecanismo para poder propagar entre dos partes, y de forma segura, la identidad de un determinado usuario, además con una serie de claims o privilegios.
- Estos privilegios están codificados en objetos de tipo JSON, que se incrustan dentro de del payload o cuerpo de un mensaje que va firmado digitalmente.
- https://jwt.io/







JSON Web Tokens are an open, industry standard RFC 7519 method for representing claims securely between two parties.

JWT.IO allows you to decode, verify and generate JWT.

LEARN MORE ABOUT JWT

SEE JWT LIBRARIES





















Debugger Libraries Introduction Ask

Crafted by auth0 0

Algorithm HS256

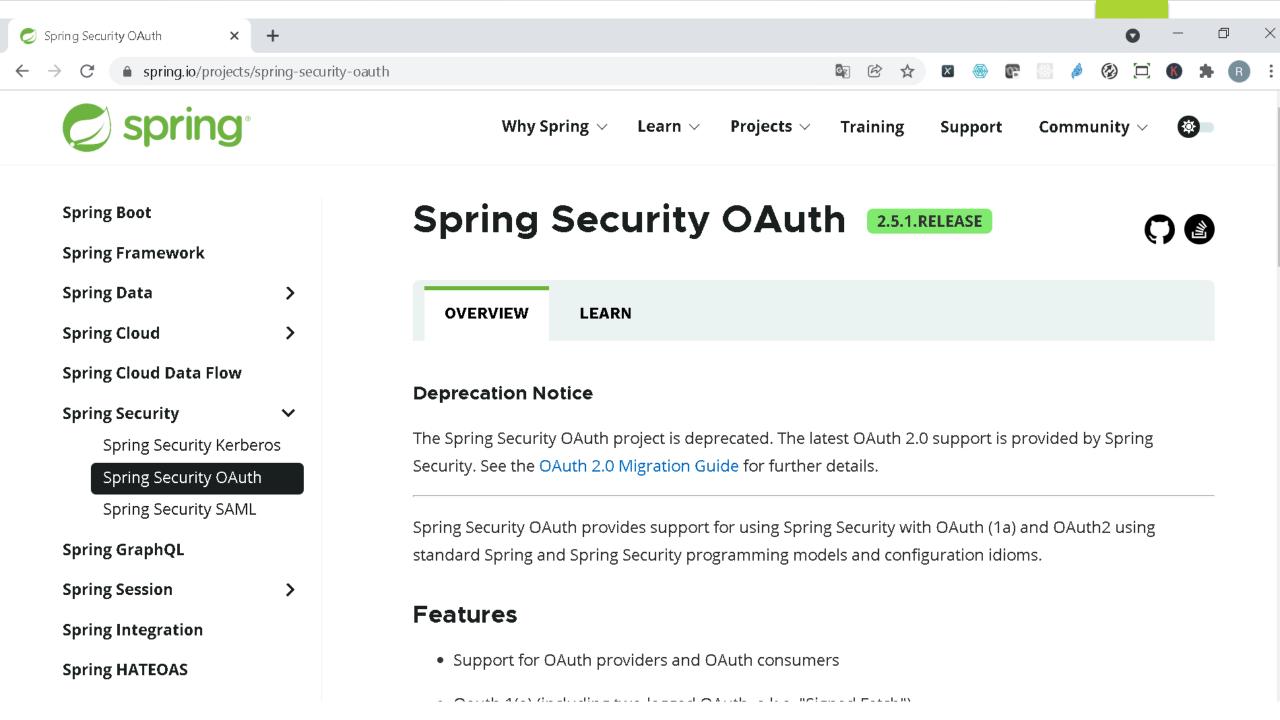
S256 V

Encoded PASTE A TOKEN HERE

eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.
eyJzdWIiOiIxMjM0NTY30DkwIiwibmFtZSI6I
kpvaG4gRG9lIiwiaWF0IjoxNTE2MjM5MDIyfQ
.SflKxwRJSMeKKF2QT4fwpMeJf36POk6yJV_a
dQssw5c

Decoded EDITTHE PAYLOAD AND SECRET

```
HEADER: ALGORITHM & TOKEN TYPE
   "alg": "HS256",
    "typ": "JWT"
PAYLOAD: DATA
   "sub": "1234567890",
   "name": "John Doe",
   "iat": 1516239022
VERIFY SIGNATURE
HMACSHA256(
  base64UrlEncode(header) + "." +
  base64UrlEncode(payload),
   your-256-bit-secret
 ) secret base64 encoded
```



Características de Spring Security

- Provee características de seguridad para aplicaciones empresariales Java EE
- Maneja componentes de Autenticación y autorización

Spring Security

- Autenticación
- ► Autorización (Control de acceso)

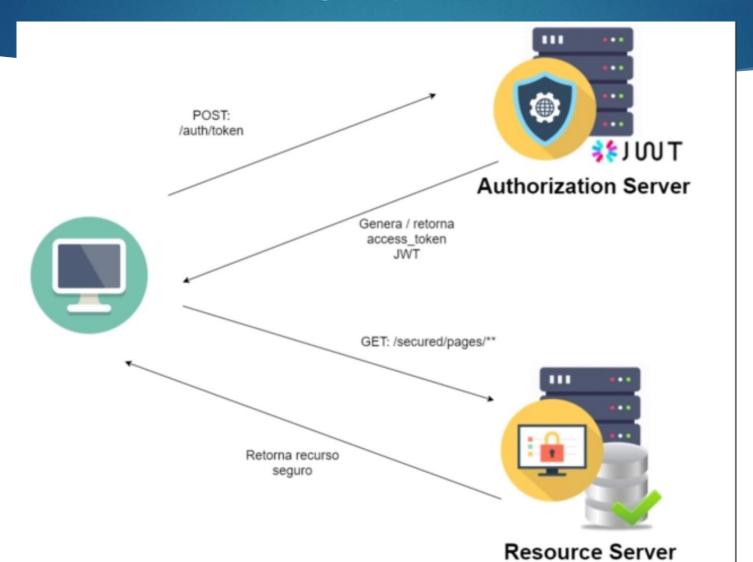
Autenticación

Se refiere al proceso de establecer un principal (un principal significa un usuario, dispositivo o algún otro sistema el cual puede ejecutar alguna acción en nuestro sistema), en general permite a los principal autenticarse en base a cualquier proveedor de seguridad. Base de datos relacional principalmente y autenticación http.

Autorización

Se refiere al proceso de decidir si se otorga acceso a un usuario para realizar una acción dentro de la aplicación, es decir para controlar el acceso a los recursos de la aplicación por medio de la asignación de roles y permisos a grupos de usuarios

OAuth



url: POST /auth/token

header:

- Authorization: Basic Base64(client_id:client_secret)
- Content-Type: application/x-www-form-urlencoded

body:

- grant_type = password
- username = andres
- password = 12345



"access_token": "eyJhbGciOiJSUzl1NilsInR5cCl6lkpXVCJ9...", "token_type": "bearer",

"refresh_token": "eyJhbGciOiJSUzl1NilsInR5cCl6lkpXVCJ9...",

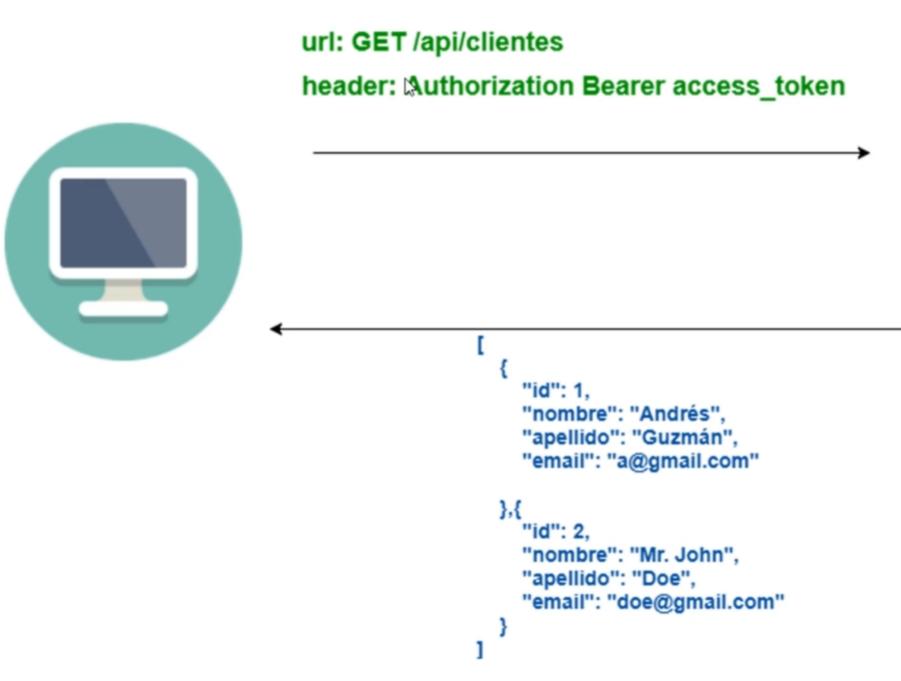
"expires in": 3599,

"scope": "read write",

"jti": "58efb674-46e6-4f6b-bbf0-e92e21e4b34a"

Authorization Server





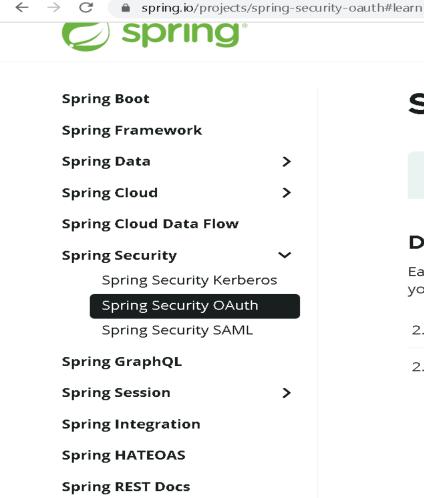


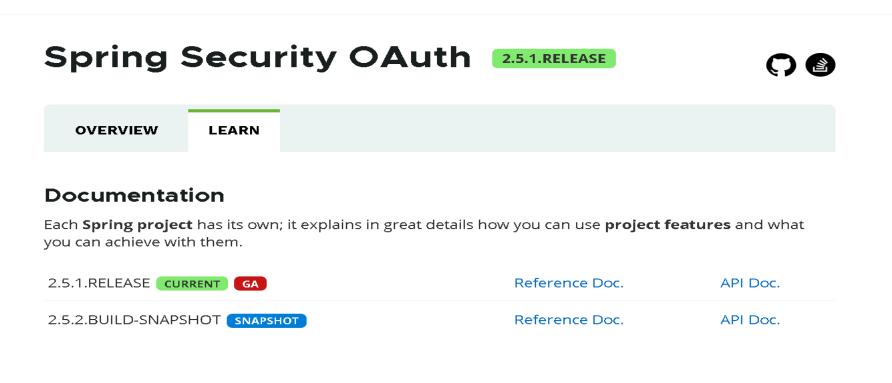
Resource Server

Implementamos a nuestro proyecto

Learn ~

Why Spring ∨



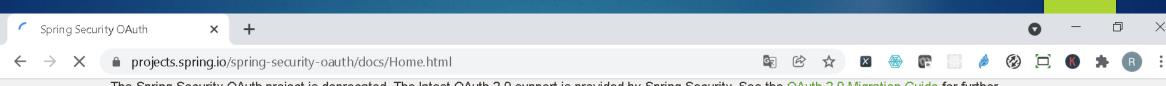


Training

Support

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Projects ∨



The Spring Security OAuth project is deprecated. The latest OAuth 2.0 support is provided by Spring Security. See the OAuth 2.0 Migration Guide for further details.

Welcome

OAuth for Spring Security provides an OAuth implementation for Spring Security. Support is provided for the implementation of OAuth providers and OAuth consumers. There is support for Oauth 1(a) (including two-legged OAuth, a.k.a. "Signed Fetch") and for OAuth 2.0.

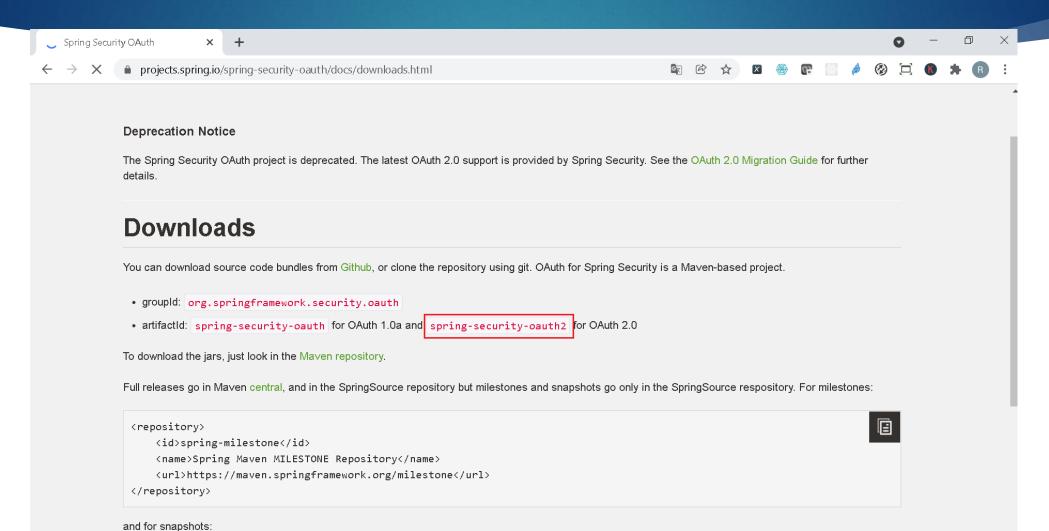
Applying security to an application is not for the faint of heart, and OAuth is no exception. Before you get started, you're going to want to make sure you understand OAuth and the problem it's designed to address. There is good documentation at the OAuth site. You will also want to make sure you understand how Spring and Spring Security work.

You're going to want to be quite familiar with both OAuth (and/or OAuth2) and Spring Security, to maximize the effectiveness of this developers guide. OAuth for Spring Security is tightly tied to both technologies, so the more familiar you are with them, the more likely you'll be to recognize the terminology and patterns that are used.

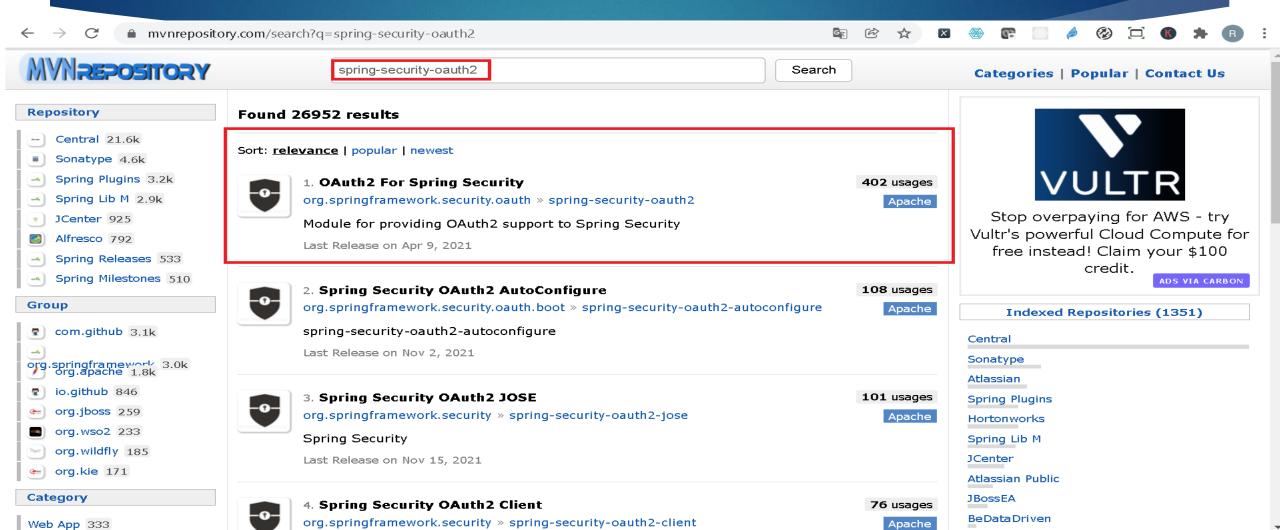
With that, you're ready to get started. Here are some useful links:

- For access to the binaries, use Maven (instructions here)
- Source code is in github at spring-projects/spring-security-oauth.
- · You'll want to see OAuth for Spring Security in action, so here is a tutorial

Copiamos esto



Y lo buscamos en el repositorio Maven



Spring Releases (1) Central (54) Spring Plugins (20) ICM (2) EBIPublic (1) SpringFramework (2)

	Version	Repository	Usages	Date
2.5.X	2.5.1.RELEASE	Central	13	Apr, 2021
2. 3.x	2.5.0.RELEASE	Central	30	May, 2020
	2.4.2.RELEASE	Central	0	Oct, 2021
2.4 .x	2.4.1.RELEASE	Central	11	Apr, 2020
	2.4.0.RELEASE	Central	28	Nov, 2019
	2.3.8.RELEASE	Central	25	Nov, 2019
	2.3.7.RELEASE	Central	18	Oct, 2019

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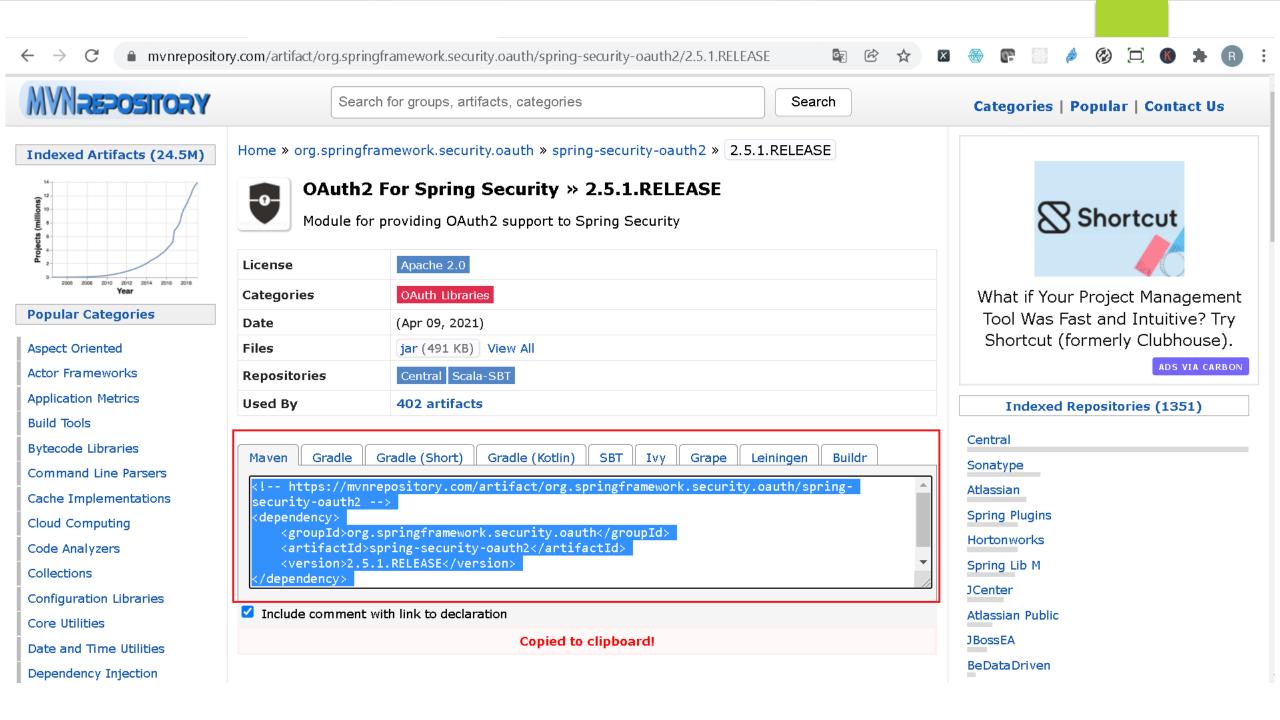
Atlassian Public

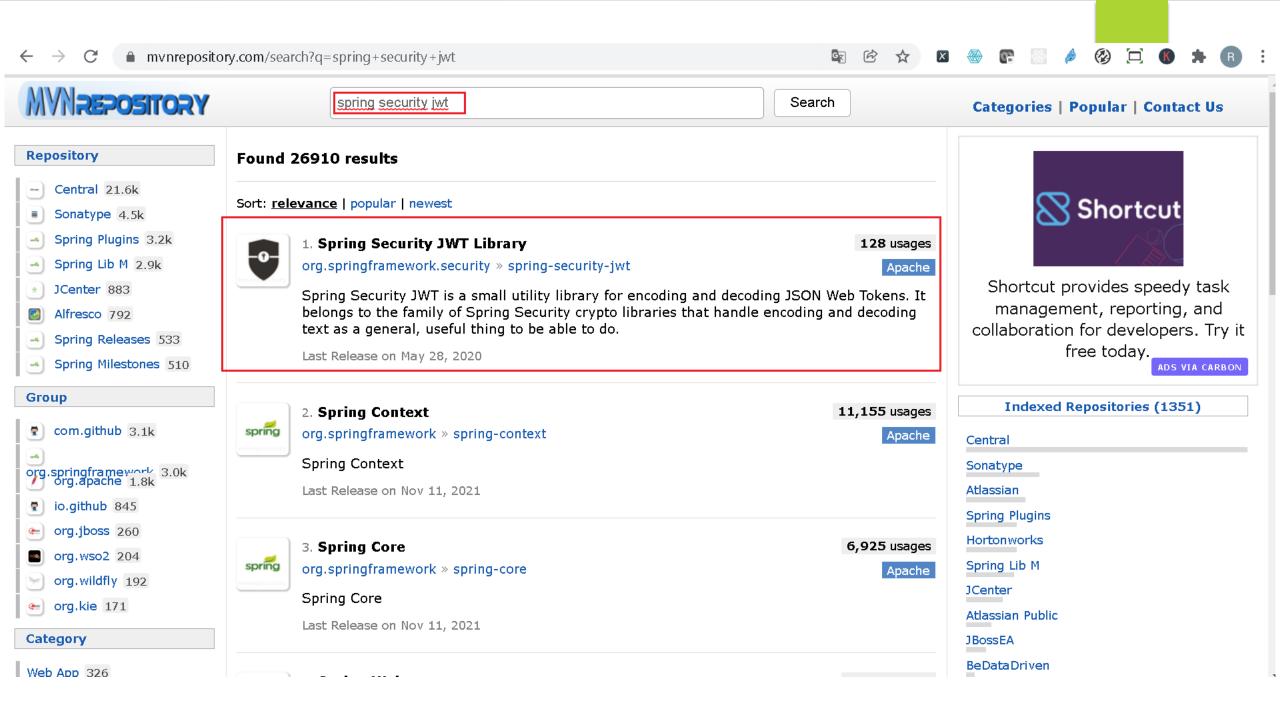
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Dependency Injection























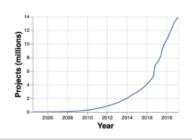
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Home » org.springframework.security » spring-security-jwt



Spring Security JWT Library

Spring Security JWT is a small utility library for encoding and decoding JSON Web Tokens. It belongs to the family of Spring Security crypto libraries that handle encoding and decoding text as a general, useful thing to be able to do.

License	Apache 2.0
Categories	JWT Libraries
Tags	security json spring jwt
Used By	128 artifacts

Central	Spring Plugins (3) ICM (2)			
	Version		Repository	Usages	Date
1.1 .x	1.1.1.RELEASE		Central	18	May, 2020
1.1.	1.1.0.RELEASE		Central	14	Nov, 2019
	1.0.11.RELEASE		Central	14	Oct, 2019
	1.0.10.RELEASE		Central	36	Jan, 2019
	1.0.9.RELEASE		Central	25	Dec, 2017
	1.0.8.RELEASE		Central	19	May, 2017
	1 0 7 DELEASE		Control	15	Nov. 2016



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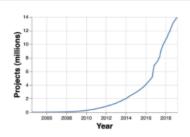
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Home » org.springframework.security » spring-security-jwt » 1.1.1.RELEASE



Spring Security JWT Library > 1.1.1.RELEASE

Spring Security JWT is a small utility library for encoding and decoding JSON Web Tokens. It belongs to the family of Spring Security crypto libraries that handle encoding and decoding text as a general, useful thing to be able to do.

License	Apache 2.0
Categories	JWT Libraries
Organization	SpringSource
HomePage	https://github.com/spring-projects/spring-security-oauth
Date	(May 28, 2020)
Files	jar (37 KB) View All
Repositories	Central
Used By	128 artifacts





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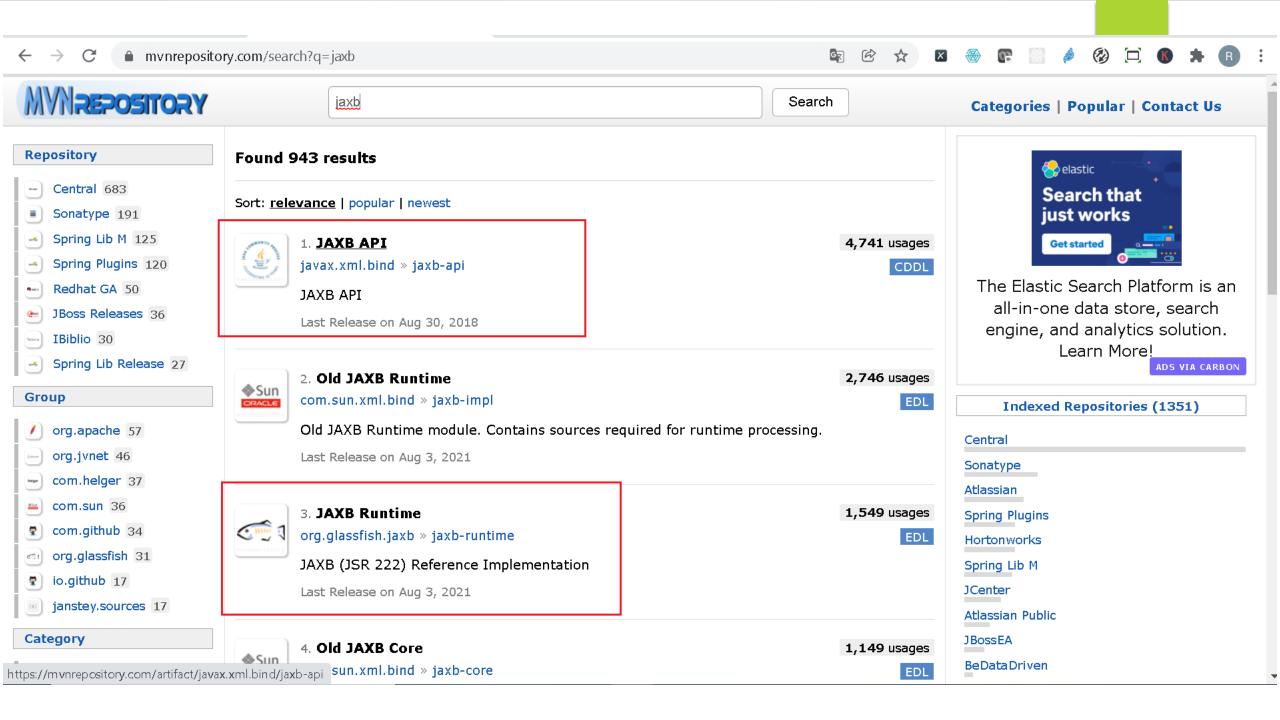
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Para jaxb-api y jaxb-runtime no necesitamos especificar la version

```
edipse-workspace - springboot-apirest/pom.xml - Edipse IDE
File Edit Navigate Search Project Run Window Help
Project Explorer ×
                                           *springboot-apirest/pom.xml ×
> 👺 maven proyect
                                                      <dependency>
                                           59⊜
> > proyecto_web
                                                          <groupId>org.springframework.security.oauth
> # Refresh
                                                          <artifactId>spring-security-oauth2</artifactId>
                                           61
> per paso
                                                          <version>2.5.1.RELEASE
                                           62
> \( \mathbb{B} \) segundo (boot) (devtools)
                                                      </dependency>
                                           63

▼ 3 > springboot-apirest [boot] [devtools] [repository master]

                                                      <!-- https://mvnrepository.com/artifact/org.springframework.security/spring-security-jwt -
                                           64
   # > src/main/java
                                                      <dependency>
                                           659
  A src/main/resources
                                                          <groupId>org.springframework.security</groupId>
                                           66
  src/test/java
                                                          <artifactId>spring-security-jwt</artifactId>
  ⇒ ■ JRE System Library [JavaSE-11]
                                                          <version>1.1.1.RELEASE
  Maven Dependencies
                                                      </dependency>
  > 📠 > src
  > 🗁 target
                                                      <!-- https://mvnrepository.com/artifact/javax.xml.bind/jaxb-api -->
  > 🖙 > uploads
                                                      <dependency>
    <groupId>javax.xml.bind
    mvnw
                                                          <artifactId>jaxb-api</artifactId>
    📑 mvnw.cmd
                                                      </dependency>
    <!-- https://mvnrepository.com/artifact/org.glassfish.jaxb/jaxb-runtime -->
                                           78∈
                                                      <dependency>
                                           79
                                                          <groupId>org.glassfish.jaxb
                                           80
                                                          <artifactId>jaxb-runtime/artifactId>
                                           81
                                                      </dependency>
```

Debemos implementar nuevas entidades

