

Nuestro entorno

Desarrollo de un API REST con Spring Boot

Entorno de desarrollo

- Podemos crear proyectos con Spring con alguno de nuestros IDEs favoritos: Eclipse, IntelliJ IDEA o Visual Studio.
- Durante el curso usaremos Spring Tool Suite, una extensión para trabajar con proyectos Spring para Eclipse.
- Disponible también para VS Code y Theia



Nuestro IDE: Spring Tool Suite



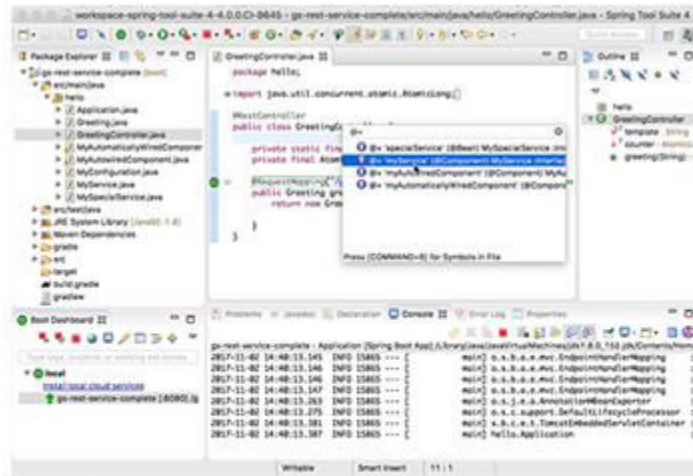
Spring Tools 4 for Eclipse

The all-new Spring Tool Suite 4.
Free. Open source.

Download STS4
(for Windows 64-bit)

Download STS4
(for macOS 64-bit)

Download STS4
(for Linux 64-bit)



<https://spring.io/tools>

Java

- La versión mínima de Java será la 8.
- Es posible que en algún momento podamos proponer alguna mejora de código a través del uso de una versión posterior (9, 11, ...).
- Si en alguna lección usamos una versión diferente, siempre avisaremos.

Spring

- Spring es todo un ecosistema de proyectos que nos dan soporte para el desarrollo de aplicaciones empresariales robustas.



SPRING BOOT

Takes an opinionated view of building Spring applications and gets you up and running as quickly as possible.



SPRING FRAMEWORK

Provides core support for dependency injection, transaction management, web apps, data access, messaging and more.



SPRING CLOUD DATA FLOW

An orchestration service for composable data microservice applications on modern runtimes.



SPRING BATCH

Simplifies and optimizes the work of processing high-volume batch operations.



SPRING SECURITY

Protects your application with comprehensive and extensible authentication and authorization support.



SPRING HATEOAS

Simplifies creating REST representations that follow the HATEOAS principle.



SPRING CLOUD

Provides a set of tools for common patterns in distributed systems. Useful for building and deploying microservices.




SPRING DATA

Provides a consistent approach to data access – relational, non-relational, map-reduce, and beyond.



SPRING INTEGRATION

Supports the well-known Enterprise Integration Patterns via lightweight messaging and declarative adapters. 



SPRING REST DOCS

Document RESTful services by combining hand-written documentation with auto-generated snippets produced with Spring MVC Test or REST Assured.



SPRING AMQP

Applies core Spring concepts to the development of AMQP-based messaging solutions.



SPRING MOBILE

Simplifies the development of mobile web apps through device detection and progressive rendering options.

Spring Boot

- Facilita la creación de aplicaciones basadas en Spring independientes y listas para usar, con un mínimo esfuerzo.
- Características
 - *Fácil* gestión del *pom.xml/build.gradle*
 - Servidor embebido
 - Dependencias iniciales que facilitan la configuración de componentes.
 - Configuración automática de librerías de 3ºs
 - Sin generación de código o configuración XML.

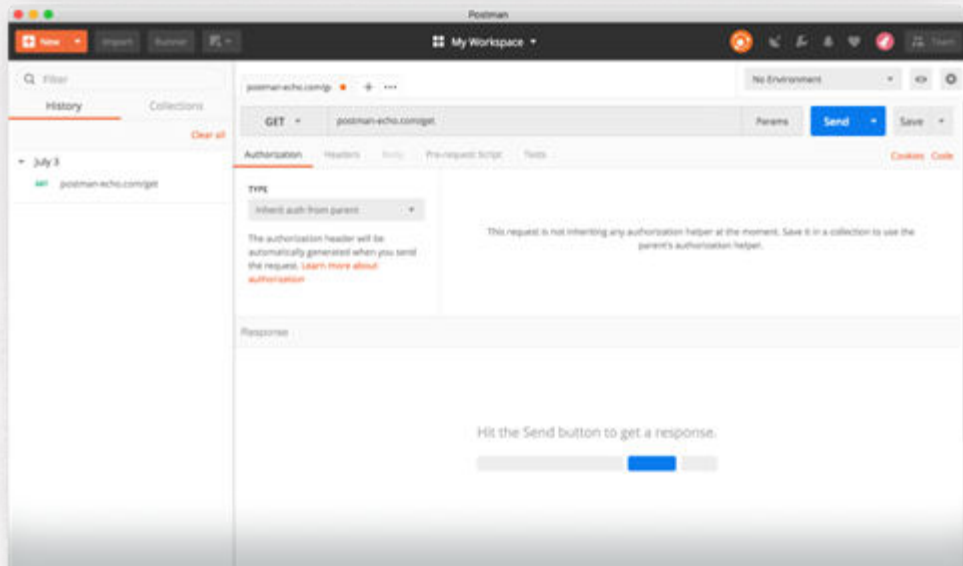
Spring Initializr

- Spring nos ofrece un servicio para la generación rápida del esqueleto de una aplicación.
- Se puede realizar desde la web <https://start.spring.io/> o desde STS

The screenshot displays the Spring Initializr web interface. On the left, a sidebar contains the following sections: Project, Language, Spring Boot, Project Metadata, and Dependencies. The main content area is divided into two tabs: 'Maven Project' (selected) and 'Gradle Project'. Under the 'Maven Project' tab, the 'Language' section has 'Java' selected, and the 'Spring Boot' section has '2.1.7' selected. The 'Project Metadata' section includes fields for 'Group' (com.example), 'Artifact' (demo), and 'Options'. The 'Dependencies' section features a search bar with a magnifying glass icon and a '1 selected' indicator. Below the search bar, a list of dependencies is shown, with 'Thymeleaf' selected. The 'Thymeleaf' entry includes a description: 'A modern server-side java template engine for both web and standalone environments. Allows HTML to be correctly'.

Postman

- Cliente que nos ayuda al desarrollo de APIs REST



Y si eres más de consola

- cURL

UBUNTU

```
$ sudo apt-get update
$ sudo apt-get install curl
$ curl --version
```

MacOSX

```
$ ruby -e "$(curl -fsSL
https://raw.githubusercontent.com/Homebrew/install/master/install)" <
/dev/null 2> /dev/null
$ brew install curl
$ curl --version
```

Windows

Descargar de
<https://curl.haxx.se>
c:\>curl --version