

SPRING BOOT EMBEDDED SERVERS

About

In general, before using Java Spring Boot Application we build these applications as `.jar` or `.war` files. These files we deploy in the external servlet servers.

But in Spring Boot it provides built-in servers.

Understanding Embedded Servers

Built-in: - Spring Boot applications come with a web server embedded within the application itself, eliminating the need to install and configure a separate server externally.

Convenient Deployment: - You can package and deploy your application as a single JAR or WAR file, making it more portable and self-containing.

Simplified Configuration: - Spring Boot automatically configures the embedded server with sensible defaults, reducing the amount of manual setup required.

SPRING BOOT SUPPORTED SERVERS

- Tomcat – The default choice, known for its stability and wide operations.
- Jetty – Known for its lightweight and high-performance characteristics.
- Undertow – A newer server designed for high throughput and low memory footprint.

Dependency Hierarchy POM.xml (in STS)

Dependency spring-boot-starter-web is present without exclusions, Tomcat is included

Application Logs

Effective pom.xml (in STS)

For Official Spring Documentation - [Spring Boot Starters Build Systems](#)

To change the default embedded built-in server, a few configurations need to be changed in pom.xml file.

```
<dependency>
  <groupId>org.springframework.boot</groupId>
  <artifactId>spring-boot-starter-web</artifactId>
  <exclusions>
    <exclusion>
      <groupId>org.springframework.boot</groupId>
      <artifactId>spring-boot-starter-tomcat</artifactId>
    </exclusion>
  </exclusions>
</dependency>
<dependency>
  <groupId>org.springframework.boot</groupId>
  <artifactId>spring-boot-starter-jetty</artifactId>
</dependency>
```

We can identify the built-in server from the Dependency Hierarchy