

targettrust
treinamento e tecnologia



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JAVA DEVELOPER

Imersão Completa





O que é Spring Boot

O Spring Boot fornece uma boa plataforma para os desenvolvedores Java desenvolverem um aplicativo stand-alone e de nível de produção que você possa executar. Você pode começar com configurações mínimas sem a necessidade de uma configuração inteira da configuração do Spring.

Vantagens

O Spring Boot oferece as seguintes vantagens para seus desenvolvedores:

- Fácil de entender e desenvolver aplicativos com spring framework
- Aumenta a produtividade
- Reduz o tempo de desenvolvimento

Objetivos

O Spring Boot foi desenvolvido com os seguintes objetivos:

- Desenvolver aplicações Spring prontas para produção de maneira mais fácil
- Reduzir o tempo de desenvolvimento e executar o aplicativo de forma independente
- Oferecer uma maneira mais fácil de começar a usar o aplicativo

Por que Spring Boot?

Você pode escolher o Spring Boot por causa dos recursos e benefícios oferecidos aqui:

- Fornece uma maneira flexível de configurar Java Beans, configurações XML e transações de banco de dados.
- Ele fornece um poderoso processamento em lote e gerencia pontos de extremidade REST.
- No Spring Boot, tudo é configurado automaticamente; Não são necessárias configurações manuais.
- Oferece aplicação de spring baseada em anotação
- Facilita o gerenciamento de dependências
- Inclui contêiner de servlet incorporado



spring



QuickStart

by **Pivot**

Spring Boot – CLI (command line interface)

O Spring Boot CLI é uma ferramenta de linha de comandos e permite executar os scripts do Groovy. Essa é a maneira mais fácil de criar um aplicativo Spring Boot usando a Interface de linha de comando do Spring Boot. Você pode criar, executar e testar o aplicativo no próprio prompt de comando.

Download:

<https://docs.spring.io/spring-boot/docs/current->

[SNAPSHOT/reference/htmlsingle/#getting-started-installing-spring-boot](https://snapshots.io/reference/htmlsingle/#getting-started-installing-spring-boot)

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:: Spring Boot ::                (v1.3.5.RELEASE)

```

Spring Boot BootstrappingSpring

Uma das maneiras de inicializar um aplicativo Spring Boot é usando o Spring Initializer. Para fazer isso, você terá que visitar a página da Web do Spring Initializer <http://start.spring.io/> e escolher sua versão e versão do Boot, do Spring. Além disso, você precisa fornecer um grupo, artefato e dependências necessárias para executar o aplicativo.

Url: <http://start.spring.io/>

The screenshot shows the Spring Initializer web application interface. The header includes the Spring Initializer logo and the tagline "Bootstrap your application", along with links to GitHub, Twitter, and Help. The main form is divided into several sections: "Project" with tabs for "Maven Project" and "Gradle Project"; "Language" with tabs for "Java", "Kotlin", and "Groovy"; "Spring Boot" with version selection (2.2.0 M4, 2.2.0 (SNAPSHOT), 2.1.7 (SNAPSHOT), 2.1.6, 1.5.21); "Project Metadata" with fields for "Group" (com.example) and "Artifact" (demo), and an "Options" section; and "Dependencies" with a search bar and a list of dependencies. At the bottom, there is a "Generate the project" button and a footer with copyright information and links to Spring Initializer and Pivotal Web Services.

Spring Initializr
Bootstrap your application

Project: Maven Project, Gradle Project

Language: Java, Kotlin, Groovy

Spring Boot: 2.2.0 M4, 2.2.0 (SNAPSHOT), 2.1.7 (SNAPSHOT), 2.1.6, 1.5.21

Project Metadata: Group (com.example), Artifact (demo), Options

Dependencies: Search dependencies to add, Selected dependencies (No dependency selected)

Generate the project - ⓧ + ↵

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start.spring.io is powered by
Spring Initializr and Pivotal Web Services

Female Where it happened: My parent's couch. I would like to share my love story with you. I met Doug when we were teenagers, and from the very beginning, I knew I was destined to love him. We started making out, but we both knew that this night was just going to be a little different. I put both my arms around his neck, and pulled him close to my body. Story #: 26829 Sex: Male Where it happened: At a wedding reception. We stood there kind of awkwardly for a minute and then we started kissing. I mean real kissing. I guess if someone had walked in on us, we would have looked kind of stupid, because we weren't very graceful about it, and we were laughing and loud. But I remember it as being better than anything. Somehow we managed to keep our clothes on. We were undressing each other. Story #: 3602 Sex: Female Where it happened: Bedroom. I was on the phone. We finally broke on the phone. I offered apologies left and right, but he kept telling me that I didn't understand. I kept insisting that I had a reason for what I did. I had to know if I wanted someone else. Story #: 7188 Sex: Male Where it happened: At home. We started kissing again, and ever so gently, he lifted me up off of the couch and started kissing me. He carried me up the stairs to my room, and from there, to my bed, where he laid me down. Story #: 7200 Sex: Female Where it happened: Bed and Breakfast I stepped back, took his hand, and moved toward the bed. He laid down and on each pillow was a chocolate mint. On one of the pillows was a package, wrapped in black with a red bow. "That's for you to open," I said. He looked at me, puzzled, and then opened the box. Inside, I had placed a dozen black condoms. "Lifestyles Tuxedos". Story #: 18844 Sex: Male Where it happened: My bedroom. I was sitting on my bed and sending a text to my parents when they went to Europe for 6 weeks on a vacation. They rang the doorbell. I opened the door and a woman stood there. She was a blonde, and her daughter, Angie, my cousin of my same age. I was very shy and quiet, and was still a virgin. I really hadn't even dated yet. I spent all my energy playing sports and was pretty good. We had moved in" with Angie and her mom. I was given a room in the basement, while they had bedrooms on the 1st and 2nd floors. The 3rd night I was there, we were watching TV in the den, and getting to know each other. Story #: 1920 Sex: Male Where it happened: My bedroom. My mother and I had just moved to this town shortly after the death of my father. I didn't have any friends my age yet, so I figured that it was going to be a very lonely and boring life. My mother was acquainted with the family next door. They had an 18 year old son, Donovan. Mom decided to hire him to mow our lawn for the summer. Story #: 1853 Sex: Male Where it happened: Radio Station. The radio station hide-a-way was ruined when another lover couple fell asleep with the bolt latched and the door was still closed. The bolt was removed and the night watchman to hold the key to a lock that was still closed. Story #: 309 Sex: Male Where it happened: Dentist office. I was going in for my annual check up and noticed the new receptionist in my dentist's office. She was an attractive, 22 year old fresh from college. When she sat me in the chair, she put the bib on me, her breasts jiggled right before my eyes. For some odd reasons, I felt weird, like something was running up my spine. The assistant notice my glaring eyes and then asked me about my relationship status. I said you really need to act on your feelings when those sensations occur. Story #: 5277 Sex: Female Where it happened: My bedroom. Valentine's Day. I was about to start as a freshman in high school, and my older sister saw me. Her parents drove her there and left me home alone so I wouldn't miss the first day of school. That night, I couldn't resist going through my sister's room. In the back of her closet, buried inside a large box, was an unmarked shoe box that was sealed tight with tape. I carefully opened it, figuring I could retape it and she would never know. My heart raced as I saw the contents. Story #: 20347 Sex: Male Where it happened: Nevada whorehouse. For my 16th birthday my cousin Paul took me to a whorehouse in Nevada. Sixteen is the legal age there and I counted the days until I was able to go. I lived in a beach town in California and it took us about five hours to drive there. The house was located in the middle of nowhere and had bright flashing lights.

MY FIRST TIME



Main Method

O método principal deve estar escrevendo a classe Spring Boot Application. Esta classe deve ser anotada com `@SpringBootApplication`. Este é o ponto de entrada do aplicativo de inicialização do spring para iniciar. Você pode encontrar o arquivo de classe principal em diretórios `src / java / main` com o pacote padrão.

```
package com.tutorialspoint.demo;

import org.springframework.boot.SpringApplication;
import org.springframework.boot.autoconfigure.SpringBootApplication;

@SpringBootApplication
public class DemoApplication {
    public static void main(String[] args) {
        SpringApplication.run(DemoApplication.class, args);
    }
}
```

Escrevendo nosso Rest Endpoint

Para escrever um simples endpoint de hello world rest no arquivo de classe principal Spring Application do aplicativo, siga as etapas mostradas abaixo:

- Em primeiro lugar, adicione a anotação `@RestController` no topo da classe.
- Agora, escreva um método Request URI com a anotação `@RequestMapping`.
- Em seguida, o método Request URI deve retornar a string Hello World.

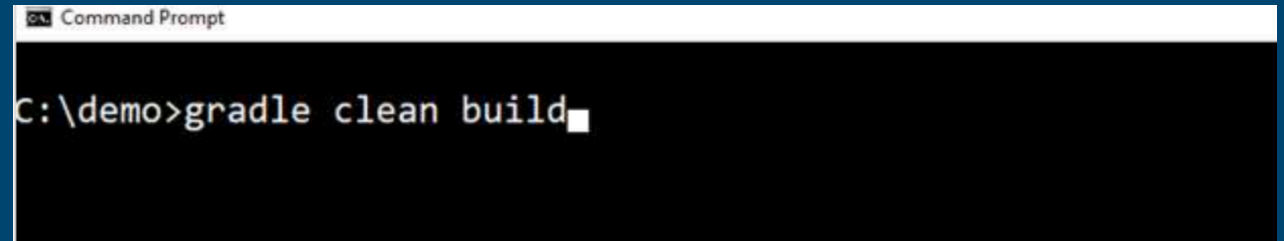
Resultado Demo

```
2
3 package com.tutorialspoint.demo;
4 import org.springframework.boot.SpringApplication;
5 import org.springframework.boot.autoconfigure.SpringBootApplication;
6 import org.springframework.web.bind.annotation.RequestMapping;
7 import org.springframework.web.bind.annotation.RestController;
8
9 @SpringBootApplication
10 @RestController
11 public class DemoApplication {
12
13     @Spring Boot
14     public static void main(String[] args) {
15         SpringApplication.run(DemoApplication.class, args);
16     }
17
18     @RequestMapping(value="/")
19     public String hello() {
20         return "Hello World";
21     }
22 }
23
```


Criando um executável JAR

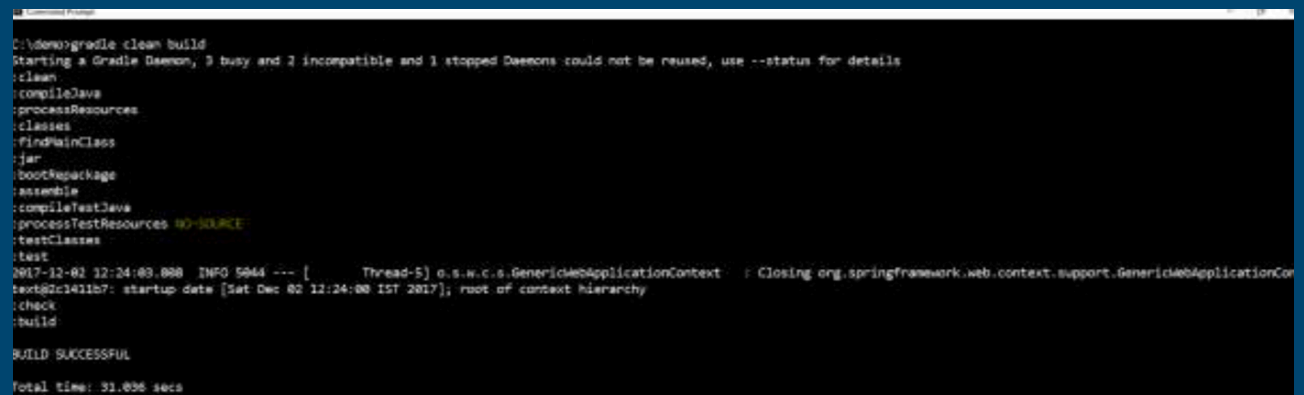
Vamos criar um arquivo JAR executável para executar o aplicativo Spring Boot usando os comandos Gradle no prompt de comando, conforme mostrado ao lado.

1 - Use o Gradle command `gradle clean build` como mostrado abaixo:



```
Command Prompt
C:\demo>gradle clean build
```

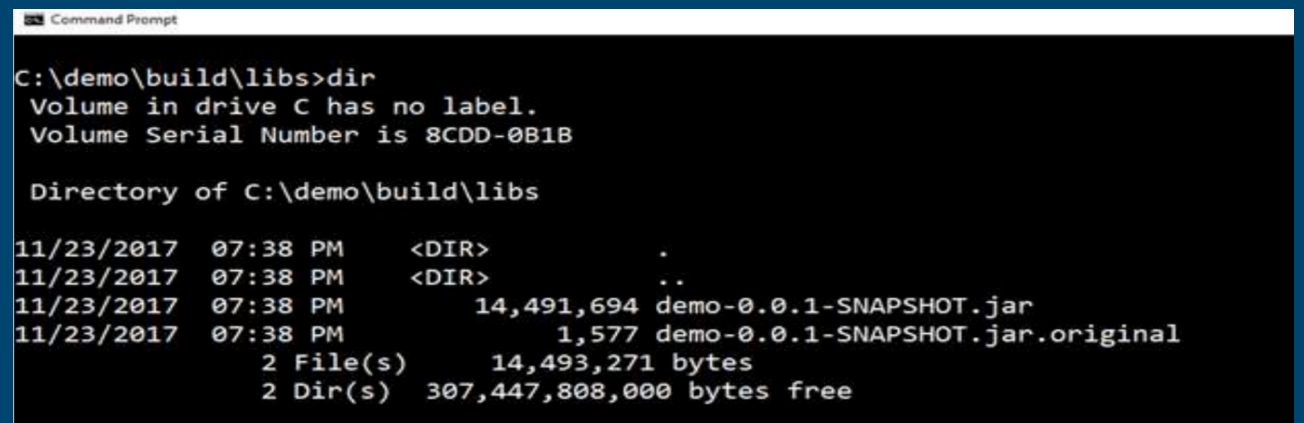
2 – Depois de executado o command, você podera ver o BUILD SUCCESSFUL como mensagem abaixo:



```
Command Prompt
C:\demo>gradle clean build
Starting a Gradle Daemon, 9 busy and 2 incompatible and 1 stopped Daemons could not be reused, use --status for details
:clean
:compileJava
:processResources
:classes
:findMainClass
:jar
:bootRepackage
:assemble
:compileTestJava
:processTestResources NO-SOURCE
:testClasses
:test
2017-12-02 12:24:09.080 INFO 5944 --- [ Thread-5] o.s.w.c.s.GenericWebApplicationContext : Closing org.springframework.web.context.support.GenericWebApplicationContext
test@2c1411b7: startup date [Sat Dec 02 12:24:08 IST 2017]; root of context hierarchy
:check
:build

BUILD SUCCESSFUL
Total time: 31.096 secs
```

3 – Dentro do diretório `build/libs` execute o command `java -jar <arquivo.jar>`



```
Command Prompt
C:\demo\build\libs>dir
Volume in drive C has no label.
Volume Serial Number is 8CDD-0B1B

Directory of C:\demo\build\libs

11/23/2017  07:38 PM    <DIR>          .
11/23/2017  07:38 PM    <DIR>          ..
11/23/2017  07:38 PM               14,491,694 demo-0.0.1-SNAPSHOT.jar
11/23/2017  07:38 PM               1,577 demo-0.0.1-SNAPSHOT.jar.original
                2 File(s)      14,493,271 bytes
                2 Dir(s)   307,447,808,000 bytes free
```



Pergunta

Façam o máximo de perguntas que desejarem!!



Exercícios

Conteúdo se encontra do portal
<http://www.eadtt.com.br/>

