HowToDoInJava

Spring boot change default port of embedded server

📅 Last Updated: October 22, 2020   👤 By: Lokesh Gupta   📁 Spring Boot

By default, Spring boot applications start with embedded tomcat server start at **default port 8080**. We can **change default embedded server port** to any other port, using any one of below technique.

> **TIP** – To scan for a free port (using OS natives to prevent clashes) use `server.port=0`. Now spring boot will find any unassigned http port for us.

1. Change default server port from properties file

We can do lots of wonderful things by simply making few entries in application properties file in any spring boot application. Changing server port is one of them.

1.1. application.properties

```
application.properties

server.port=9000
```

1.1. application.yml

```
application.yml

server:
  port : 9000
```

2. Change the server port programatically

EmbeddedServletContainerCustomizer interface is used to **customize embedded tomcat configuration**. Any beans of this type will get a callback with the container factory before the container itself is started, so we can set the `port`, `address`, `error pages` etc.

2.1. Spring boot2 – WebServerFactoryCustomizer interface

Change default server port in spring boot2 applications by implementing `ConfigurableWebServerFactory` interface.

```
AppContainerCustomizer.java

@Component
public class AppContainerCustomizer
        implements WebServerFactoryCustomizer< ConfigurableWebServerFactory > {

    @Override
    public void customize(ConfigurableWebServerFactory factory) {
        factory.setPort(9000);
    }
}
```

2.2. Spring boot 1.x – EmbeddedServletContainerCustomizer interface

Change default server port in spring boot 1.x applications by implementing `EmbeddedServletContainerCustomizer` interface.

```
AppContainerCustomizer.java

@Component
public class AppContainerCustomizer implements EmbeddedServletContainerCustomizer

    @Override
    public void customize(ConfigurableEmbeddedServletContainer container) {

        container.setPort(9000);
    }
```

```
    }
```

3. Spring boot change default port from command line

If the application is built as uber jar, we may consider this option as well. In this technique, we will pass **'server.port'** argument during application run command.

```
$ java -jar -Dserver.port=9000 spring-boot-demo.jar
```

Let me know if you know any other way to accomplish to **change the spring boot embedded server default port**.

Happy Learning !!

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Yes

No

Recommended Reading:

1. Spring boot embedded server logs

2. Spring Boot JMSTemplate with Embedded ActiveMQ

3. How to run Tomcat on port 80

4. Spring Boot – Embedded Tomcat Configuration

5. Spring Boot – Configure Jetty Server

6. [Spring HATEOAS – Embedded Collection Model Name](#)

7. [M2_REPO – Change maven repository location in eclipse](#)

8. [Java Default Methods Tutorial](#)

9. [Spring Cloud Config Server with Git Integration](#)

0. [Tomcat – Architecture and server.xml configuration](#)

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Vinit Solanki

March 25, 2019 at 6:25 pm

Is server.port is just related to embedded servers ??

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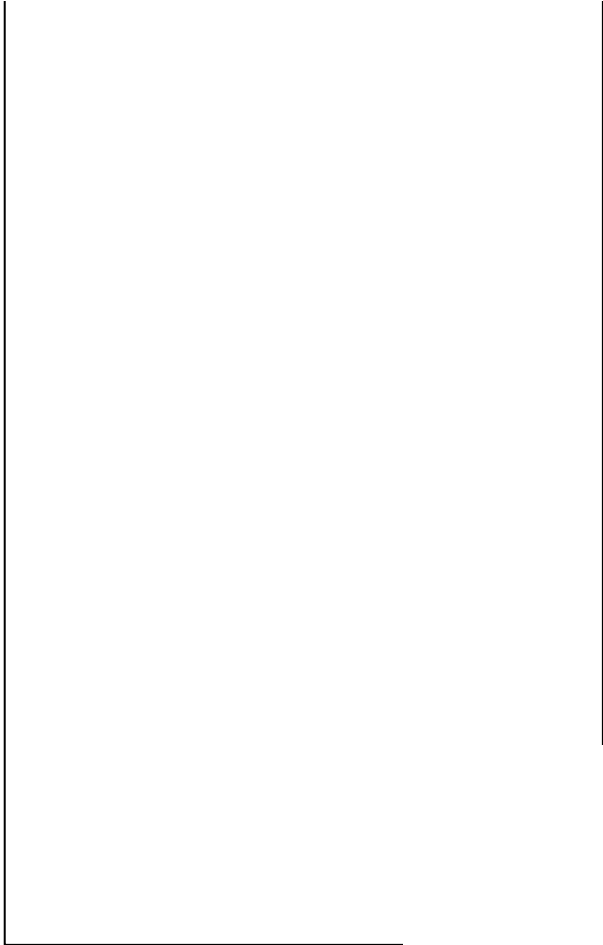
Lokesh Gupta

March 25, 2019 at 7:46 pm

yes

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