# Spring @PostConstruct and @PreDestroy example

By mkyong (http://www.mkyong.com/author/mkyong/) | March 29, 2010 | Updated : June 13, 2011

In Spring, you can either implements InitializingBean and DisposableBean (http://www.mkyong.com/spring/spring-initializingbean-and-disposablebean-example/) interface or specify the init-method and destroy-method (http://www.mkyong.com/spring/spring-init-method-and-destroy-method-example/) in bean configuration file for the initialization and destruction callback function. In this article, we show you how to use annotation @PostConstruct and @PreDestroy to do the same thing.

#### Note

The **@PostConstruct** and **@PreDestroy** annotation are not belong to Spring, it's located in the J2ee library – common-annotations.jar.

# @PostConstruct and @PreDestroy

A CustomerService bean with @PostConstruct and @PreDestroy annotation

```
package com.mkyong.customer.services;
import javax.annotation.PostConstruct;
import javax.annotation.PreDestroy;
public class CustomerService
{
   String message;
   public String getMessage() {
      return message;
    }
   public void setMessage(String message) {
      this.message = message;
    }
   @PostConstruct
   public void initIt() throws Exception {
      System.out.println("Init method after properties are set : " + message);
   @PreDestroy
   public void cleanUp() throws Exception {
      System.out.println("Spring Container is destroy! Customer clean up");
    }
}
```

By default, Spring will not aware of the @PostConstruct and @PreDestroy annotation. To enable it, you have to either register 'CommonAnnotationBeanPostProcessor' or specify the '<context:annotation-config />' in bean configuration file,

# CommonAnnotationBeanPostProcessor

# 2. <context:annotation-config />

#### Run it

```
package com.mkyong.common;
import org.springframework.context.ConfigurableApplicationContext;
import org.springframework.context.support.ClassPathXmlApplicationContext;
import com.mkyong.customer.services.CustomerService;
public class App
{
    public static void main( String[] args )
    {
        ConfigurableApplicationContext context =
            new ClassPathXmlApplicationContext(new String[] {"Spring-Customer.xml"});
        CustomerService cust = (CustomerService)context.getBean("customerService");
        System.out.println(cust);
        context.close();
    }
}
```

#### Output

```
Init method after properties are set : im property message com.mkyong.customer.services.CustomerService@47393f ...

INFO: Destroying singletons in org.springframework.beans.factory.
support.DefaultListableBeanFactory@77158a:
defining beans [customerService]; root of factory hierarchy
Spring Container is destroy! Customer clean up
```

The **initIt() method (@PostConstruct)** is called, after the message property is set, and the **cleanUp() method (@PreDestroy)** is call after the context.close();

## Download Source Code

Download It – Spring-PostConstruct-PreDestroy-Example.zip (http://www.mkyong.com/wp-content/uploads/2010/03/Spring-PostConstruct-PreDestroy-Example.zip)

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Spring @PropertySource