## Spring: Why is afterPropertiesSet of InitializingBean needed when we have also custom init() or @PostConstuct

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Why is afterPropertiesSet of InitializingBean needed when we have also custom init() @Bean(initMethod = "init") or @PostConstuct ? What actions can I do with one and not do with the other? When should I use one and not the other. All are callbacks triggered after all properties are autowired.









## 1 Answer





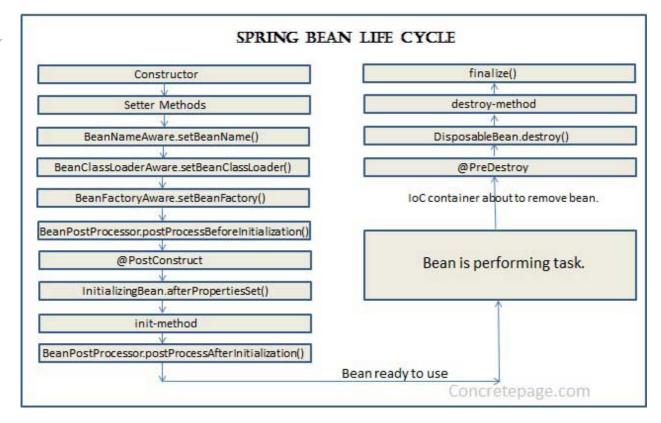
In general, if a bean implements InitializingBean, first @PostConstruct is called, then the afterPropertiesSet and then init-method.











@PostConstruct is a JSR-250 annotation while init-method and InitializingBean is Spring's tools for bean initialization.

## InitializingBean vs. init-method

Choosing between Spring tools, <code>init-method</code> and <code>destroy-method</code> is the recommended approach because of no direct dependency to Spring Framework and we can create our own methods. <code>init-method</code> is a way of calling custom method independent of Spring, if you'll decide to go with some other framework, you can reuse this method.

## PostConstruct vs. Spring tools

Spring documentation provides clear explanation about preferable ways of initialization:

To interact with the container's management of the bean lifecycle, you can implement the Spring InitializingBean and DisposableBean interfaces. The container calls afterPropertiesSet() for the former and destroy() for the latter to allow the bean to perform certain actions upon initialization and destruction of your beans.

The JSR-250 @PostConstruct and @PreDestroy annotations are generally considered best practice for receiving lifecycle callbacks in a modern Spring application. Using these annotations means that your beans are not coupled to Spring specific interfaces.

edited Sep 12 '18 at 8:44

answered May 21 '18 at 12:12



- Could you please clarify the difference between afterPropertiesSet and init-method lda Amit May 21 '18 at 12:26
  - @Alma Shvartz First of all, afterPropertiesSet called before init-method but making a tight coupling of a bean with Spring Framework. init-method is a custom method independent of Spring, if yo'll decide to go with something else, you can reuse the method. J-Alex May 21 '18 at 12:32
  - @J-Alex, Very nice diagram, with a tiny inaccuracy: @PostConstruct is part of postProcessBeforeInitialization phase, not a separate action. The details are in
    - postProcessBeforeInitialization phase, not a separate action. The details are in stackoverflow.com/questions/8519187/... – igor.zh Nov 1 '18 at 20:29