

# Spring Bean Lifecycle

## Step-by-Step Explanation

1. Instantiation → Spring creates the bean instance (using constructor).
2. Populate Properties → Dependencies are injected (via constructor/setter/field).
3. Aware Interfaces (optional) → `BeanNameAware` / `BeanFactoryAware`, etc.
4. `BeanPostProcessor` (before init) → Logic runs before initialization.
5. Initialization:
  - `@PostConstruct` annotation
  - `afterPropertiesSet()` (`InitializingBean` interface)
  - `init-method` (XML/Java Config)
6. `BeanPostProcessor` (after init) → Logic runs after initialization.
7. Bean is ready for use → Available in `ApplicationContext`.
8. Destruction:
  - `@PreDestroy` annotation
  - `destroy()` (`DisposableBean` interface)
  - `destroy-method` (XML/Java Config)

### ■ Lifecycle Summary:

Instantiation → Dependency Injection → Aware Interfaces →  
PostProcessors (before init) → Initialization → PostProcessors (after init) →  
Ready to Use → Destruction