Spring:

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|  |  |  | To do Practically:    Change the scope of bean  Change the type of autowire  Use of @value,@resource @Bean vs @Autowire        In Multithreading :    Callable and runnable and future codes |
|  | Depedency Injection:    Dependency Injection is **a fundamental aspect of the Spring framework, through which the Spring container “injects” objects into other objects or “dependencies”**. Simply put, this allows for loose coupling of components and moves the responsibility of managing components onto the container.      Scope of Bean:    Singleton  Prototype  Request  Session  Global Session    In xml bean id, scope,  And in annotation work with @component with @scope("prototype")    Types of Autowire:    **no**  This is default setting which means no autowiring and you should use explicit bean reference for wiring. You have nothing to do special for this wiring.    [byName](https://www.tutorialspoint.com/spring/spring_autowiring_byname.htm)  Autowiring by property name. Spring container looks at the properties of the beans on which *autowire* attribute is set to *byName* in the XML configuration file. It then tries to match and wire its properties with the beans defined by the same names in the configuration file.       |  | | --- | | [byType](https://www.tutorialspoint.com/spring/spring_autowiring_bytype.htm)  Autowiring by property datatype. Spring container looks at the properties of the beans on which *autowire* attribute is set to *byType* in the XML configuration file. It then tries to match and wire a property if its **type** matches with exactly one of the beans name in configuration file. If more than one such beans exists, a fatal exception is thrown. |     [constructor](https://www.tutorialspoint.com/spring/spring_autowiring_byconstructor.htm)  Similar to byType, but type applies to constructor arguments. If there is not exactly one bean of the constructor argument type in the container, a fatal error is raised.    **autodetect**  Spring first tries to wire using autowire by *constructor*, if it does not work, Spring tries to autowire by *byType*.    Changes done by xml using autowire="";  Or @Autowire,@Qualifier;      Bean life cycle:  Init  Destroy    Init-method ,destroy-method in XML file  shutdown hook **registerShutdownHook()** method that is declared on the AbstractApplicationContext class. This will ensure a graceful shutdown and call the relevant destroy methods. |  |
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