

Spring Beans

Bean Scope

- The bean have the following scopes:

Sr. No	Scope & Description
1	singleton This scopes the bean definition to a single instance per Spring IoC container (default).
2	prototype This scopes a single bean definition to have any number of object instances.
3	request This scopes a bean definition to an HTTP request. Only valid in the context of a web-aware Spring ApplicationContext.
4	session This scopes a bean definition to an HTTP session. Only valid in the context of a web-aware Spring ApplicationContext.
5	global-session This scopes a bean definition to a global HTTP session. Only valid in the context of a web-aware Spring ApplicationContext.

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Bean Properties

- The bean have the following configuration meta data:

Sr. No	Properties & Description
1	class This attribute is mandatory and specifies the bean class to be used to create the bean.
2	name This attribute specifies the bean identifier uniquely. In XMLbased configuration metadata, you use the id and/or name attributes to specify the bean identifier(s).
3	scope This attribute specifies the scope of the objects created from a particular bean definition and it will be discussed in bean scopes chapter.
4	constructor-arg This is used to inject the dependencies and will be discussed in subsequent chapters.
5	properties This is used to inject the dependencies and will be discussed in subsequent chapters.
6	autowiring mode This is used to inject the dependencies and will be discussed in subsequent chapters.

7	lazy-initialization mode A lazy-initialized bean tells the IoC container to create a bean instance when it is first requested, rather than at the startup.
8	initialization method A callback to be called just after all necessary properties on the bean have been set by the container. It will be discussed in bean life cycle chapter.
9	destruction method A callback to be used when the container containing the bean is destroyed. It will be discussed in bean life cycle chapter.