Spring

API

org.springframework.web.WebApplicationInitializer

Use to configure a servlet 3.0 container (alternative to web.xml)

org.springframework.web.context.support.AnnotationConfigWebApplicationContext

Environment

Represents the environment in which an application is running.

Exposes profile and property information

Can be used to determine which profiles are active

Convenient service interface for configuring and retrieving properties from variety of sources (JNDI, system, etc.)

Annotations

@Configuration

Annotates a class containing one or more @Bean annotations scannable by Spring

Bootstrapped by means of

@Component

Indicates a candidate to be detected by scanning

@Profile

Specifies a component is eligible for registration with spring context if one or more of specified profiles is active

@Bean

A method that produces a bean to be managed by the spring container

May specify initMethod and destroyMethod in the annotation

@Bean(initMethod="create", destroyMethod="destroy")

Testing

Enable a JUnit class to support spring

Add annotations

specifying the test should be run using a Spring test runner

@RunWith(SpringJunit4ClassRunner.class)

Spring's runner sets up the test to load the spring container, specified with @ContextConfiguration annotation

Initializing spring container

@ContextConfiguration(classes={TestIntegration.class, IntegrationConfig.class})

Concepts

Spring container

Annotation-based configuration

Alternative to XML

Spring Context

Container for bean definitions

Scanning

Spring can detect classes annotated with certain annotations

TODO: classpath scanning, manual registration of classes

Annotations include @Configuration, @Component, and javax.inject annotations

Profile

Logical group of bean definitions

TODO: How activated?