

SPRING FRAMEWORK

CONFIGURATION WITH ANNOTATIONS

APRIL, 2015

ANNOTATION CONFIG



```
<beans
   xmlns="http://www.springframework.org/schema/beans"
   xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
   xmlns:context="http://www.springframework.org/schema/context"
   xsi:schemaLocation="
       http://www.springframework.org/schema/beans
       http://www.springframework.org/schema/beans/
                                    spring-beans-3.2.xsd
       http://www.springframework.org/schema/context
       http://www.springframework.org/schema/context/
                                    spring-context-3.2.xsd">
       <context:annotation-config/>
</beans>
```

AUTOWIRED

@Autowired

@Autowired (required=false)

@Inject -- JSR 330

public class App {
 @Autowired
 private Client client;
}

AUTOWIRED

@Autowired @Autowired (required=false) @Inject -- JSR 330 public class App { @Autowired private Client client; Can be used to inject: BeanFactory ApplicationContext ResourceLoader

ApplicationEventPublisher

CONFIDENTIAL

AUTOWIRED

```
public class App {
  @Autowired
                 // field
   private Client client;
  @Autowired
                        // setter
   public void setLogger(...) {
  @Autowired
             // constructor
   public App(Client client, ...) {
```

QUALIFIER

```
• @Qualifier("bean name")
• @Resource(name="...") -- JSR 250
  public class App {
     @Autowired
     @Qualifier ("fileEventLogger")
     private EventLogger defaultLogger;
```

MORE ANNOTATIONS

INIT & DESTROY

```
public class SomeEventLogger {
    @PostConstruct
    public void init() {}
    @PreDestroy
    public void destroy() {}
}
```

MORE ANNOTATIONS

INIT & DESTROY

```
public class SomeEventLogger {
    @PostConstruct
    public void init() {}
    @PreDestroy
    public void destroy() {}
}
```

VALUES

```
@Value("Hello there!")
@Value("${client.id}")
```

BEANS

- @Component
- @Service
- @Repository
- @Controller

BEANS

- @Component
- @Service
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- @Controller

```
<context:component-scan</pre>
```

base-package="..."/>

BEANS

- @Component
- @Service
- @Repository
- @Controller

```
@Configuration
public class AppConfig {
   @Bean
   public Client client() {
      return new Client();
```

```
public static void main (String[] args) {
 ApplicationContext ctx =
      new AnnotationConfigApplicationContext (
                 AppConfig.class);
      new AnnotationConfigApplicationContext (
             AppConfig.class, LoggersConfig.class);
```

REGISTER

REGISTER

SCAN

```
ctx.scan ("ua.epam.spring.core.beans");
ctx.refresh();
```

PRACTICE



XML



Java

```
@Configuration
@Import (LoggersConfig.class)
public class AppConfig {
    @Bean
    @Scope ("prototype")
    public Event event() {
        return new Event(new Date());
    }
    @Autowired
    private EventLogger combinedLogger;
```



THANK YOU

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