

Spring Professional Exam Tutorial v5.0

Question 24

Question 24 - How do you configure profiles? What are possible use cases where they might be useful?

Spring Profiles are configured by:

- ▶ Specifying which beans are part of which profile
- ▶ Specifying which profiles are active

You can specify beans being part of profile in following ways:

- ▶ Use `@Profile` annotation at `@Component` class level - bean will be part of profile/profiles specified in annotation
- ▶ Use `@Profile` annotation at `@Configuration` class level - all beans from this configuration will be part of profile/profiles specified in annotation
- ▶ Use `@Profile` annotation at `@Bean` method of `@Configuration` class - instance of bean returned by this method will be part of profile/profiles specified in annotation
- ▶ Use `@Profile` annotation to define custom annotation - `@Component` / `@Configuration` / `@Bean` method annotated with custom annotation will be part of profile/profiles specified in annotation

If Bean does not have profile specified in any way, it will be created in every profile.
You can use `!` to specify in which profile bean should not be created.

You can activate profiles in following way:

- ▶ Programmatically with usage of `ConfigurableEnvironment`
- ▶ By using `spring.profiles.active` property
- ▶ On JUnit Test level by using `@ActiveProfiles` annotation
- ▶ In Spring Boot Programmatically by usage of `SpringApplicationBuilder`
- ▶ In Spring Boot by `application.properties` or on `yml` level

Question 24 - How do you configure profiles? What are possible use cases where they might be useful? (cont.)

Spring Profiles are useful in following cases:

- ▶ Changing Behavior of the system in Different Environments by changing set of Beans that are part of specific environments, for example prod, cert, dev
- ▶ Changing Behavior of the system for different customers
- ▶ Changing set of Beans used in Development Environment and also during Testing Execution
- ▶ Changing set of Beans in the system when monitoring or additional debugging capabilities should be turned on

