

Spring Professional Exam Tutorial v5.0

Question 23

Question 23 - What are the examples of @Conditional annotations? How are they used?

Spring Boot supports following Conditional Annotations for Auto Configuration Classes:

- ▶ `ConditionalOnBean` - **presence** of Spring Bean
- ▶ `ConditionalOnMissingBean` - **absence** of Spring Bean
- ▶ `ConditionalOnClass` - **presence** of class on classpath
- ▶ `ConditionalOnMissingClass` - **absence** of class on classpath
- ▶ `ConditionalOnCloudPlatform` - if specified cloud platform is active - for example **Cloud Foundry**
- ▶ `ConditionalOnExpression` - if SpEL expression is true
- ▶ `ConditionalOnJava` - **presence** of Java in specified version
- ▶ `ConditionalOnJndi` - if JNDI location exists
- ▶ `ConditionalOnWebApplication` - if a web application that uses **WebApplicationContext** or **StandardServletEnvironment**
- ▶ `ConditionalOnNotWebApplication` - application that is not a web application
- ▶ `ConditionalOnProperty` - **presence** of spring property
- ▶ `ConditionalOnResource` - **presence** of resource
- ▶ `ConditionalOnSingleCandidate` - **only one** candidate for the bean found

Question 23 - What are the examples of @Conditional annotations? How are they used?

@Conditional annotations are used together with Auto Configuration Classes, to indicate under which conditions, specific @Configuration class should apply.

```
@Configuration
@ConditionalOnProperty(name = "file.store", havingValue = "network")
public class NetworkFileStoreAutoConfiguration {
    @Bean
    public FileStore networkFileStore() {
        return new NetworkFileStore();
    }
}
```

