

Spring Certified #12



A question lead guide to prepare Spring certification



Spring Actuator

Which of the following are features of Spring Boot Actuator? (select 2)

- **Health Checks**
- **Data Persistence**
- **Metrics**
- **Authentication and Authorization**

Health Checks & Metrics

Spring Boot Actuator provides the following features:

1. Health checks: It offers a variety of health indicators to check the status of an application.
2. Metrics: It provides several metrics that are useful to monitor the performance of an application.
3. Auditing: It can track and record any changes made to the application.
4. HTTP tracing: It provides the ability to trace HTTP requests and responses.
5. Environment details: It exposes the configuration details of an application.
6. Endpoints: It provides several endpoints that can be used to access the features provided by Actuator.
7. Info: It provides custom information about the application.
8. Logging: It allows the logging level of an application to be changed at runtime.
9. Thread dumps: It provides the ability to take thread dumps of an application.
10. Remote management: It provides the ability to manage an application remotely.

What Is an Actuator?

In essence, Actuator brings production-ready features to our application.

Monitoring our app, gathering metrics, and understanding traffic or the state of our database become trivial with this depend



Spring Core

_____ is the default scope for Spring beans.

- **websocket**
- **singleton**
- **request**
- **application**

singleton

The latest version of the Spring framework defines 6 types of scopes:

- singleton
- prototype
- request
- session
- application
- websocket

The last four scopes mentioned, *request*, *session*, *application*, and *websocket*, are only available in a web-aware application.

Singleton Scope

When we define a bean with the *singleton* scope, the container creates a single instance of that bean; all requests for that bean name will return the same object, which is cached. Any modifications to the object will be reflected in all references to the bean. **This scope is the default value if no other scope is specified.**

Data Management



Which transaction APIs are supported by Spring?

- Java Transaction API (JTA)
- Hibernate
- Java Persistence API (JPA)
- All of the mentioned

All of the mentioned

Spring supports different transaction APIs, including Java Transaction API (JTA), Hibernate, Java Persistence API (JPA), and Spring's own transaction management. It also provides a consistent programming model across all these APIs, allowing developers to work with transactions in a unified way.



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