

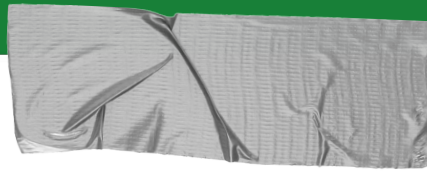
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# Spring Certified #12



A question lead guide to prepare Spring certification

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## 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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