

Complete Spring Boot Interview Questions (2025 Edition)

■ Spring Boot Core Concepts

1. What is Spring Boot?
2. What are the main features of Spring Boot?
3. What is Auto-Configuration in Spring Boot?
4. What are Spring Boot Starters?
5. What is the use of the `@SpringBootApplication` annotation?

■ Spring Boot Architecture

6. Explain the architecture of Spring Boot.
7. What is the difference between Spring and Spring Boot?

■ Spring Boot Annotations

8. What is the use of `@RestController` and `@RequestMapping`?
9. Difference between `@Component`, `@Service`, `@Repository`, and `@Controller`.
10. What is `@Autowired` and how does dependency injection work in Spring Boot?

■ Spring Boot Actuator & Configuration

11. What is Spring Boot Actuator?
12. How do you configure properties in Spring Boot?
13. How to create custom properties in Spring Boot?

■ Spring Boot Data & Database

14. What is Spring Data JPA?
15. Difference between `CrudRepository`, `JpaRepository`, and `PagingAndSortingRepository`.
16. How do you handle transactions in Spring Boot?
17. How do you connect a Spring Boot app to a database?

■ Spring Boot REST API

18. How to create a REST API in Spring Boot?
19. How do you handle exceptions in Spring Boot REST APIs?
20. How do you validate request data in Spring Boot?

■ Spring Boot Advanced

21. What is the difference between `RestTemplate` and `WebClient`?
22. What are Spring Profiles?
23. What is the use of `application.properties` vs `application.yml`?
24. How do you secure a Spring Boot application?
25. What are Microservices and how does Spring Boot support them?

■ Spring Boot Deployment

26. How do you run a Spring Boot application?
27. What are ways to deploy a Spring Boot application?

■ Spring Boot Testing

28. How do you test a Spring Boot application?
29. Difference between Unit test and Integration test in Spring Boot?
30. What is the use of `TestRestTemplate`?

■ Real-World / Scenario-Based Questions (2025 Trend)

31. Explain Spring Boot flow from request to response.
 32. How do you handle exceptions globally using `@ControllerAdvice`?
 33. How can you secure REST APIs using JWT in Spring Boot?
 34. How to call another microservice using `WebClient`?
 35. What happens internally when a Spring Boot app starts?
 36. How do you use profiles for dev/test/prod environments?
 37. How do you configure and connect multiple databases?
 38. How do you monitor and log Spring Boot apps using Actuator?
 39. How do you improve performance or handle lazy loading in JPA?
 40. What's the difference between `@Bean` and `@Component`?
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Pro Tip for Preparation:

- 80% of interviews cover the first 30 questions.
- 20% focus on the 10 real-world practical questions above.
- Be ready with examples from your current project (Ariel, Cbord, Crunchtime).