

47 Spring Boot interview questions to ask your applicants

Questions

1. What are the key advantages of using Spring Boot over traditional Spring framework?
2. Explain the concept of 'Convention over Configuration' in Spring Boot.
3. How does Spring Boot handle database initialization?
4. What is the purpose of the `@SpringBootApplication` annotation?
5. How would you externalize configuration in a Spring Boot application?
6. Describe the role of actuator in Spring Boot applications.
7. How does Spring Boot simplify microservices development?
8. What strategies would you use to test a Spring Boot application?
9. Can you explain the purpose of the Spring Boot starter dependencies?
10. What is the significance of the 'application.properties' file in a Spring Boot project?
11. How do you create a simple RESTful web service using Spring Boot?
12. What are the main features of Spring Boot DevTools?
13. How does Spring Boot handle dependency management?
14. Describe how to configure logging in a Spring Boot application.
15. What is Spring Boot CLI and what are its advantages?
16. How would you enable HTTPS in a Spring Boot application?
17. Explain the concept of profiles in Spring Boot and how to use them.
18. Can you describe the process of creating a custom Spring Boot starter?
19. What are the different ways to run a Spring Boot application?
20. How do you handle exception management in Spring Boot?
21. What is the role of Spring Boot annotations such as `@Controller`, `@Service`, and `@Repository`?
22. How does Spring Boot integrate with Spring Security for authentication and authorization?
23. What are the different ways to deploy a Spring Boot application?
24. How do you configure a Spring Boot application to connect to an external database?
25. Explain the concept of auto-configuration in Spring Boot.
26. How would you implement pagination and sorting in a Spring Boot application?
27. Can you describe how to use Spring Boot with JPA for data access?
28. How do you handle internationalization (i18n) in a Spring Boot application?
29. How would you explain the concept of microservices to someone with no technical background?
30. What are some advantages of using microservices over a monolithic architecture?
31. How do you handle communication between microservices in a Spring Boot application?
32. Can you describe a situation where implementing microservices improved a project's outcome?
33. What are some challenges you might face when implementing microservices with Spring Boot?
34. How do you ensure data consistency in a microservices architecture?
35. What role does Spring Cloud play in a microservices architecture?
36. What is dependency injection, and how does it work in Spring Boot?
37. Can you explain the different types of dependency injection supported by Spring Boot?
38. How does Spring Boot's inversion of control (IoC) container impact application design?
39. What is the purpose of the `@Autowired` annotation in Spring Boot applications?
40. How would you handle circular dependencies in a Spring Boot application?
41. What are the advantages of using constructor-based dependency injection over setter-based injection?
42. Can you describe the role of the `ApplicationContext` in Spring Boot?
43. What is the difference between prototype and singleton scopes in the context of Spring Boot beans?
44. How can you create a custom bean and manage its lifecycle in Spring Boot?
45. What are qualifiers, and how do you use them in Spring Boot for dependency injection?
46. How does Spring Boot facilitate testing with mock dependencies using annotations?