

# Spring Boot - Interview Sheet

Core concepts, configuration, and production patterns

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Top 10 Interview Questions

**Q1.** What is Spring Boot and how does its auto-configuration mechanism differ from traditional Spring XML configuration?

Answer:

**Q2.** Explain the purpose of `@SpringBootApplication` and what three annotations it meta-composes.

Answer:

**Q3.** How does Spring Boot externalize configuration? Explain properties files, YAML, and environment variable precedence.

Answer:

**Q4.** What is Spring Boot Actuator? Name three key endpoints and how you would secure them in production.

Answer:

**Q5.** How does Spring Boot's embedded server work? How do you replace Tomcat with Jetty or Undertow?

Answer:

**Q6.** Explain the stereotype annotations: `@Component`, `@Service`, `@Repository`, `@Controller` what are their differences?

Answer:

**Q7.** How does Spring Data JPA simplify data access in Spring Boot? Explain derived query method naming conventions.

Answer:

**Q8.** How do you implement global exception handling in Spring Boot using `@RestControllerAdvice` and `@ExceptionHandler`?

Answer:

**Q9.** Explain the difference between singleton and prototype bean scopes and when you would choose each.

Answer:

**Q10.** How do you write a Spring Boot integration test using `@SpringBootTest` with `MockMvc` or `WebTestClient`?

Answer: