

Lead Java Developer I Assessment

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9. In a microservices architecture, which pattern helps to reduce the coupling between services by ensuring that each service manages its own data storage? (10 Points) *

- ☐ Gateway Pattern
- ☐ Service Registry Pattern
- ☒ Database Sharding Pattern
- ☐ Data Partitioning Pattern

10. Which pattern is used to ensure eventual consistency between microservices when multiple services need to update their data independently? (10 Points) *

- ☐ Event Sourcing Pattern
- ☒ Saga Pattern
- ☐ CQRS Pattern
- ☐ Retry Pattern

11. Which pattern helps to ensure message delivery and communication reliability between microservices by allowing messages to be retried? (10 Points) *

- ☐ Saga Pattern
- ☐ Retry Pattern
- ☒ Circuit Breaker Pattern
- ☐ Event Sourcing Pattern

12. What is default scope of bean in Spring framework? (10 Points) *

- ☒ singleton
- ☐ prototype
- ☐ request
- ☐ session

13. Which of the following annotations is used to define the main class of a Spring Boot application? (10 Points) *

- ☐ @SpringBoot
- ☐ @SpringApplication
- ☐ @SpringConfiguration
- ☒ @SpringBootApplication

14. Which of the following is a feature provided by Spring Boot Actuator? (10 Points) *

- ☐ Security

☒ Monitoring and managing application health

☐ Dependency injection

☐ Database access

15. Which file should be modified to change the packaging of a Spring Boot application from JAR to WAR? (10 Points) *

☒ pom.xml

☐ [application.properties](#)

☐ build.gradle

☐ application.yml

16. Which configuration is required to deploy a Spring Boot WAR file to Apache Tomcat? (10 Points) *

☒ Modify the Tomcat server.xml file

☐ Enable the Spring Boot auto-configuration property

☐ Configure the [application.properties](#) file to specify the deployment type

☐ Configure the pom.xml file to include the necessary dependencies

17. Can you deploy multiple Spring Boot applications to the same Apache Tomcat instance? (10 Points) *

☒ Yes, but each application must have a unique context path

☐ No, Apache Tomcat only supports one Spring Boot application per instance

☐ Yes, Spring Boot handles application isolation automatically

☐ No, Spring Boot applications cannot be deployed to Apache Tomcat

18. How can you enable SSL (HTTPS) in a Spring Boot application deployed on Apache Tomcat? (10 Points) *

- ☐ Configure SSL settings in the [application.properties](#) file
- ☐ Add SSL certificates to the Tomcat keystore
- ☒ Set up SSL using Apache HTTP Server as a reverse proxy
- ☐ Enable SSL using annotations in the Spring Boot application code

19. How can you configure Spring Security to use a JWT request filter in a Spring Boot application? (10 Points) *

- ☐ By adding a bean definition in the application context
- ☐ By annotating the filter with @Component
- ☒ By registering the filter in the security configuration class
- ☐ By configuring it in the [application.properties](#) file

20. When should a JWT request filter be applied in the Spring Boot request processing flow? (10 Points) *

- ☐ After authentication
- ☒ Before authentication
- ☐ After authorization
- ☐ Before authorization

21. What is the role of encryption keys in encryption algorithms? (10 Points) *

- ☐ To compress data before encryption
- ☐ To generate random numbers
- ☒ To encode plaintext into ciphertext
- ☐ To control the encryption and decryption processes

22. Which pattern is used to optimize the performance and scalability of microservices by distributing and balancing the workload across multiple instances? (10 Points) *

- ☒ Load Balancer Pattern
- ☐ Observer Pattern
- ☐ Singleton Pattern
- ☐ Circuit Breaker Pattern

23. What is true about <list> collection configuration elements? (10 Points) *

- ☐ This helps in wiring a list of values, allowing duplicates.
- ☐ This helps in wiring a list of values but without any duplicates.
- ☒ This can be used to inject a collection of name-value pairs where name and value can be of any type.
- ☐ This can be used to inject a collection of name-value pairs where the name and value are both Strings.

24. What is bean autowiring? (10 Points) *

- Autowiring lets Spring resolve collaborators otherbeans for your bean by inspecting
- ☐ the contents of the BeanFactory without using <constructor-arg> and <property> elements.
 - ☐ Autowiring injects values in spring beans.
 - ☒ Autowiring injects one bean into another.
 - ☐ Autowiring helps in wiring a list of values, allowing duplicates.

25. What is byType mode of autowiring? (10 Points) *

- ☐ Default setting which means no auto-wiring and you should use explicit bean reference for wiring.
- ☐ Autowiring by property name. Spring tries to match and wire its properties with the beans defined by the same names in the configuration file.
- ☒ Spring first tries to wire using autowire by constructor, if it does not work, Spring tries to autowire by byType.
- ☐ Autowiring by property type. Spring tries to match and wire a property if its type matches with exactly one of the beans name in configuration file.

26. What does @Required annotation mean? (10 Points) *

- ☐ This annotation indicates that bean property must be populated by the user.
- ☒ This annotation indicates that bean property is required while saving the bean data to database.
- ☐ This annotation simply indicates that the affected bean property must be populated at configuration time, through an explicit property value in a bean definition or through autowiring.
- ☐ This annotation indicates that bean property is required while serializing the bean.

27. What is RequestHandledEvent:event?

(10 Points) *

- ☐ This event is published when the Servlet Context is either initialized or refreshed
- ☐ This event is published when the HTTP Request is received.
- ☐ This event is published when the HTTP session is initialized or refreshed.
- ☒ This event is published when the HTTP Request is serviced.

28. What is circuit breaker pattern, and how does it relate to microservices?

(10 Points) *

- ☐ Circuit breaker pattern is used to manage electrical circuits in microservices architecture
- ☒ Circuit breaker pattern is a design pattern to handle network failures and latency in distributed systems
- ☐ Circuit breaker pattern is used to enforce rate limiting in microservices
- ☐ Circuit breaker pattern is a technique for load balancing across microservices

29. What are some common challenges in microservices architecture? (10 Points) *

- ☒ Service discovery, data consistency, and inter-service communication
- ☐ Monolithic deployment, centralized management, and synchronous communication
- ☐ Tight coupling, shared databases, and distributed transactions
- ☐ All of the above

30. What is the purpose of Spring Cloud Netflix Eureka in microservices architecture? (10 Points) *

- ☒ Service registration and discovery
- ☐ Load balancing
- ☐ Inter-service communication
- ☐ Centralized configuration management

31. What is the role of Spring Cloud Config Server in microservices architecture? (10 Points) *

- ☐ Service registration and discoveryOption 1
- ☒ Centralized configuration management
- ☐ Implementing circuit breakers
- ☐ API gateway

32. What is the primary purpose of the Spring Cloud Security component in microservices architecture? (10 Points) *

- ☐ Implementing service discovery
- ☐ Managing API gateways
- ☐ Configuring distributed tracing
- ☒ Providing security features for microservices

33. Which of the following is a benefit of using HikariCP in a Spring Boot application? (10 Points) *

- ☐ Increased memory usage
- ☐ Reduced database performance

☒ Better performance and lower resource consumption

☐ Increased network latency

34. Which configuration property can be used to customize the HikariCP connection pool size in [application.properties](#) in Spring Boot? (10 Points) *

☐ hikaricp.connectionTimeout

☐ hikaricp.maximumPoolSize

☐ hikaricp.minIdle

☒ hikaricp.idleTimeout

35. What happens if the maximumPoolSize is reached in HikariCP? (10 Points) *

☐ New connections are queued indefinitely

☐ The application crashes

☐ The oldest connections are closed to make room for new ones

☒ The connection pool size is automatically increased

36. Which of the following is a recommended best practice when using HikariCP in a Spring Boot application? (10 Points) *

☐ Setting the maximumPoolSize to a very low value

☐ Configuring a long connectionTimeout value

☒ Tuning the connection pool size based on application requirements

☐ Disabling idle connection tracking

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