1. Questions asked on Microservices concepts - Novice

\* What is Service Discovery? - Partially Answered

No application is an island. **Service discovery** is how applications and (micro)services locate each other on a network. Service discovery implementations include both:

1. a central server (or servers) that maintain a global view of addresses and
2. clients that connect to the central server to update and retrieve addresses.
3. <https://www.datawire.io/guide/traffic/service-discovery-microservices/>
4. <https://dzone.com/articles/service-discovery-in-a-microservices-architecture>

\* How eureka check the heartbeat of the services? - Partially Answered

\* What is Feign Client? - Not Answered

\* What is Circuit Breaker/Hystrix? - Not Answered

\* What is API Gateway? - Partially Answered

\* Have you worked on pre and post filters of Zuul? - Not Answered

2. Situation/Scenario-based questions

\* How can I monitor the health of all the services in my microservice architecture? - Partially Answered - talked about some monitoring tools and

Spring actuator

\* Microservices there is a problem of data consistency, how will you solve it?  - Not Answered - was talking about spring transaction management

\* Suppose we have two endpoints one needs to be accessed only by admin and other only by the user, how will you implement the requirement? - Partially Answered

discussed that it could be done with spring security, web security adaptor which we can extend to write the custom logic

\* Suppose i have three folders A, B, C and my main spring boot application is on C folder and other configuration on A and components on B, so if I start

the application will it load the configuration and components from A and B, if not what changes i need to do to make it work correctly? - Partially Answered

3. Spring Boot - Intermediate

  \* How auto-configuration works in spring boot? - Partially Answered

\* How Spring Boot knows which classes to auto-configure? - Partially Answered

\* Difference between @SpringBootApplication and @EnableAutoConfiguration? - Partially Answered

  \* What is spring.factories file? - Not  Answered

\* What is @Conditional\*\*? - Not Answered

\* How profiling works in Spring boot? - Not Answered

\* How can I make certain part of the application only to work for a specific profile? - Not Answered

\* Can you explain what happens in the background when a Spring Boot Application is “Run as Java Application”? - Partially  Answered

4. Spring: Advanced

\* What are the different types of Bean Scopes and the difference between them? - Partially Answered

\* What is IOC? - Answered

\* What is the IOC container in Spring? - Answered

\* What does @Configuration do? - Answered

\* What is the difference between @Copmonent, @Service and @Repository? - Answered

\* What happens if I replace @Service and @Repository with @Component, will my application work? - Answered

  \* Have you ever worked on REST Services? - Yes

\* What is the difference between the POST and PUT? - Partially Answered

  \* Difference between @RestController and @Controller? - Partially Answered

\* What are handler interceptors? - Partially Answered

\* How can i create my custom interceptor? - Not Answered

  \* What is the Controller Advice and how we handle exception inside it? - Not Answered

\* What is ResponseEntity? Why do we wrap actual response in  ResponseEntity? - Partially Answered

5. Java 8: Advanced

  \* What are PermGen and metaspace? What is the difference between them?- Not Answered

\* What is Volatile variable in java? - Not Answered

\* What is ThreadLocal variable in java? - Not Answered

\* What are Lambda expressions and their advantage - Partially  Answered

\* what is optional and why do we use it - Not Answered

\* What is the functional interface - Answered

  \* What are predicate and supplier? - Partially Answered

\* Why java impose to have only one abstract functional inside fn interface? - Answered

\* Can I have default and static methods in the functional interface? - Answered

  \* What are Streams? - Partially Answered

  \* What are intermediate and terminal operations in streams - Not Answered

   \* What are the advantages of the stream over traditional loops? - Partially Answered

\* Is @FunctionalInterface annotation mandatory to define a Functional Interface? What is the use of @FunctionalInterface annotation? - Partially Answered

6. JPA: Intermediate

   \* Worked on Spring JPA? - No

\* What is an entity manager? - Not Answered

   \* Levels of Caching in Hibernate and difference between them? - Partially Answered

  \* What is @Entity? - Answered

\* How you define a foreign key in an entity? -  Partially Answered

\* What are the embeddable classes? - Not Answered

   \* How can I define composite primary key in an entity? - Not Answered

 \* Why do we indexing on tables? - Partially Started

\* How can I run my custom query using JPA? - Partially Answered

  7. Junit: Intermediate

\* What is the difference between Spring Runner and Junit Runner? - Partially Answered

\* What does @Before and @After do? - Answered

\* What does @Setup do? - Partially Answered

\* How is the testing of the 'protected' method done? - Not Answered

\* If the JUnit method's return type is 'string', what will happen? - Not Answered

\* What does @BeforeClass Method does? -