Contents

Java

Core Java

1. What is cloning?

2. What is Serialization?

3. What is synchronization?

4. What is runtime exception?

5. What is exception?

6. Static method

Multithreading

7. Explain Synchronization, Callable & Future

8. Callable and runnable difference

Spring and Spring Boot

9. Dependency injection types and differences & Application context

10. Difference between @Controller & @RestController

11. How you will setup an model entity using Spring data jpa in application from start?

12. Composite primary key configuration

13. Dispatcher Servlet

14. How spring boot application loads.

15. Connection pool configuration

16. Storing json in single Colum of table

17. How many ways we can create instance of a class?

18. Centralized configuration in micro services application

19. How to group Employee object?

20. What is wiring and Autowiring?

21. When Dispatcher Servlet loads in an application?

22. How to remove duplicates for an employee object?

23. @controller @ service and @repository

24. Bean creation for a class

Rest API

25. What are microservices?

26. How microservices interact with each other?

Collections

27. How to avoid duplicate elements collection in collection

28. Equals and hash code.

29. What is synchronization?

30. Implementation

31. method custom

32. Relation between equals and hash code methods

33. How to configure load factor or threshold Of an application

DevOps

1. What is the use of Ansible and Ansible play book?

2. How we maintain target machines?

3. How to target multiple machines at a time?

4. How to access only few machines from the group?

5. How to restrict deployment to a particular node?

6. Docker file components?

7. Difference between host and bridge network?

8. How to create image from container?

9. CI/CD pipeline (from checkout to deploy) explain?

10. How to fail a build in a deployment stage?

11. Which pipeline you used?

12. Notification system of multiple logs(elastic search)?

13. AWS:

14. CIDR blocks in vpc.

15. AMI (how to take and what is the use)?

16. IAM?

17. How to use and maintain security groups?

General Questions

1. About project architecture

2. Database design architecture

3. Roles and responsibilities in current project

4. Which technologies are being used in project (Kubernetes, circuit breakers, etc)

Mandatory Skill set

1. Python & Shell Scripting

2. Ansible

3. Docker

4. Jenkins

5. Terraform

6. Networking (good understanding of HTTPS, WIP, Virtual IP, SSL, TLS(mTLS), Nginx)

7. Strong Experience in developing Components

Nice to have

1. AWS services

    a. API Gate way
    b. VPC's
    c. MSK

2. ELK Stack

3. Kafka

4. Elasticsearch