

1. What is Apache Kafka, and what are its core components?
2. How does Kafka differ from traditional message queues like RabbitMQ?
3. Explain the role of producers and consumers in Kafka.
4. What is a Kafka topic? How does it differ from a queue?
5. What is a Kafka broker, and what role does it play in Kafka architecture?
6. What is ZooKeeper's role in Kafka?
7. Can you explain Kafka's partitioning and replication mechanisms?
8. What is the significance of offset in Kafka?
9. How does Kafka ensure fault tolerance and high availability?
10. Explain the concept of consumer groups in Kafka.
11. What are the key features of Kafka that make it suitable for real-time data streaming?
12. How can you achieve message ordering in Kafka?
13. What is the role of Apache ZooKeeper in Kafka?
14. How does Kafka guarantee message durability?
15. What are the common use cases for Kafka?
16. How does Kafka handle backpressure?
17. What is the role of the Kafka Connect framework?
18. Explain Kafka Streams and its use cases.
19. How does Kafka integrate with other systems such as Apache Storm or Spark?
20. Can you describe the process of setting up a basic Kafka cluster?
21. What is the role of the offset?
22. Can Kafka be used without ZooKeeper?
23. In Kafka, why are replications critical?
24. What is a partitioning key?
25. What is the critical difference between Flume and Kafka?
26. When does QueueFullException occur in the producer?
27. What is a partition of a topic in Kafka Cluster?
28. Explain Geo-replication in Kafka.
29. What do you mean by ISR in Kafka environment?
30. How can you get precisely one messaging during data production?
31. How do consumers consumes messages in Kafka?
32. What is Zookeeper in Kafka?
33. What is a replica in the Kafka environment?
34. What does follower and leader in Kafka mean?
35. Name various components of Kafka.

36. Why is Kafka so popular?

37. What are consumers in Kafka?

38. What is a consumer group?

39. How is a Kafka Server started?

40. How does Kafka work?

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