

## Kafka Course



### Files

- The **course files** can be found [here](#).

The **course files zip** has **Kafka** and **Confluent (Schema Registry, etc.)** already installed.

### Lab files

Every lab folder has a `README.md` with instructions on how to complete the lab, and a `solution` folder with a working version of the lab for reference. Please use the README.md and solution folder as a guide to completing the labs.

### Lab Instructions

The latest instructions for the labs can be found below.

1. [Lab 1](#) Basic Kafka
2. [Lab 1.2](#) Understanding Failover
3. [Lab 2](#) Writing a simple Java Producer
4. [Lab 3](#) Writing a simple Java Consumer
5. [Lab 5.1](#) Advanced Producers
6. [Lab 5.2](#) Clean shutdown
7. [Lab 5.3](#) Configuring Producer Durability
8. [Lab 5.4](#) Metrics and Replication Verification
9. [Lab 5.5](#)
10. [Lab 5.6](#) Retry, timeouts, in-flight, back-off
11. [Lab 5.7](#)
12. [Lab 5.8](#)
13. [Lab 6.1](#) Advanced Consumer
14. [Lab 6.2](#) Position Consumer in Topic Log
15. [Lab 6.3](#) At-Most-Once and At-Least-Once Semantics
16. [Lab 6.4](#) Exactly-Once message semantics
17. [Lab 6.5](#) Thread per consumer
18. [Lab 6.6](#) Consumer with worker threads
19. [Lab 6.7](#) Priority queue with consumer.assign
20. [Lab 7.1](#) Avro
21. [Lab 7.2](#) Schema Registry
22. [Lab 8.1](#) Kafka Security SSL
23. [Lab 8.3](#) Kafka Security SASL PLAIN
24. [Lab 8.4](#) Kafka Security SASL SCRAM
25. [Lab 9](#) Kafka MirrorMaker
26. [Lab Streams 1](#) Kafka Streams Lab 1
27. [Lab Streams 2](#) Kafka Streams Lab 2
28. [Lab Protobuf](#) Working with Protobuf
29. [Lab Consumer Types & Error Handling](#) Consumer Types & Error Handling
30. [Lab Kafka + Spring](#) Kafka Spring Lab