

# Kafka Training Course Content

## Module 1: Introduction of kafka

- ✚ What is Apache Kafka
- ✚ Kafka Features and terminologies
- ✚ High-level kafka architecture
- ✚ Real-life Kafka Case Studies

## Module 2: Kafka components - Theory

- ✚ Broker
- ✚ Zookeeper
- ✚ Topics
- ✚ Partition
- ✚ Replication
- ✚ Producer
- ✚ Consumer

## Module 3: Kafka Installation

- ✚ Pre-requisites and Environment setup
- ✚ Code download
- ✚ Single broker installation
  - Zookeeper configuration and setup
  - Kafka server configuration and setup

## Module 4: Kafka Command Line Interface (CLI)

- ✚ Topics
  - Replication factor
  - Partitions
- ✚ Console Producer
- ✚ Console Consumer
- ✚ Console Consumer Groups

## Module 5: Advanced Topics configuration

- ✚ Changing a topic configuration
- ✚ Segment and Indexes
- ✚ Log Cleanup policies
- ✚ Log Cleanup Delete
- ✚ Log Compaction Theory
- ✚ Log compaction Practice
- ✚ min.insync.replicas reminder
- ✚ Unclean leader Election

## **Module 6: Kafka Multi Node cluster setup**

- ✚ Introduction and Architecture
- ✚ VM installations with Linux 7
- ✚ Kafka code download from Apache mirror website
- ✚ Java JDK install

## **Module 7: Zookeeper Quorum setup**

- ✚ What is a zookeeper ?
- ✚ Zookeeper role in kafka cluster
- ✚ Zookeeper Quorum sizing
- ✚ Zookeeper configuration
  - data.dir

## **Module 8: Kafka cluster setup**

- ✚ Kafka Basics
- ✚ Kafka cluster size discussion
- ✚ Kafka Configuration
  - broker.id
  - log.dir
  - zookeeper.connect
  - advertised.listeners (most important)
- ✚ Kafka Multi-broker setup
- ✚ Testing Kafka Cluster

## **Module 9: Kafka Performance**

- ✚ Disk (I/O)
- ✚ Network
- ✚ RAM
- ✚ CPU
- ✚ OS (Operating System)

## **Module 10: Kafka Manager**

- ✚ What is a kafka manager
- ✚ Advantages of Kafka Manager

## **Module 11: Kafka Security**

- ✚ SSL/TLS - setup
- ✚ Authentication

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