

Day - 1

- **Course Introduction Architecture**

- Kafka Cluster Setup Introduction
- Cloud Provider Target Architecture
- Cost of the tutorial

- **Zookeeper Quorum Setup**

- What is Zookeeper?
- Zookeeper Role in a Kafka Cluster
- Zookeeper Quorum Sizing
- Zookeeper Configuration
- Hands-On: Zookeeper AWS Setup
- How to SSH Into our Servers?

- Hands-On: Single Zookeeper Machine Setup
- Hands-On: Zookeeper Service Setup
- Using the Zookeeper Command Line Interface (CLI)
- Hands-On: Zookeeper Quorum setup - Part 1 AWS
- Hands-On: Zookeeper Quorum Setup - Part 2 Zookeeper
- Zookeeper Four Letter Words
- Zookeeper Internal File System
- Factors impacting Zookeeper Performance
- Note: Zookeeper in AWS
- Hands-On: Web tools AWS machine Docker setup
- Management Tools for Zookeeper & Zoo navigator demo

- **Kafka Cluster Setup**

- Kafka Basics
- Kafka Cluster Size Discussions
- Kafka Configuration
- Hands-On: Kafka AWS Setup
- Hands-On: Single Kafka Broker Setup
- Hands-On: Running Kafka Commands
- Hands-On: Kafka Multi Broker (Cluster) Setup
- Hands-On: Testing the Kafka Cluster
- Can I connect to my Kafka cluster?
- advertised.listeners setting - most important setting
- Hands-On: Kafka Manager (Cluster Management)

- Hands-On: Demonstrating Kafka Resiliency
- Kafka Performance: I/O
- Kafka Performance: Network
- Kafka Performance: RAM
- Kafka Performance: CPU
- Kafka Performance: OS (Operating System)
- Kafka Performance: Other
- Running Kafka in Production on AWS
- Hands-On: How to change a Kafka Broker Configuration
- Advanced Kafka Configuration
- Landoop Kafka Topics UI, Confluent REST Proxy, Confluent Schema Registry Setup