Hyperledger Fabric: Design, Develop and Deploy (LFS270)

Gain a deep understanding of Hyperledger Fabric, including how to write smart contracts, manage Chaincode, handle private data; and create Node.js client apps that interact with Fabric networks, controlling access by user identity.

Duration: 30 Hours

Prerequisites for this course

To best benefit from this course, you should have:

- Knowledge of basic Linux system administration commands and navigation
- Knowledge of bash basics
- Strong knowledge of containerization and Docker
- Familiarity with NoSQL databases and general understanding of CouchDB
- Ability to read JavaScript, TypeScript, and Go programming languages
- Familiarity with YAML

Outline for this course

Chapter 1 – Course Introduction

Chapter 2 – Introduction to Blockchain

Chapter 3 – Introduction to Linux Foundation Decentralized Trust

Chapter 4 – Introduction to Hyperledger Fabric

Chapter 5 - The Hyperledger Fabric Model

Chapter 6 - Identity, Certificate Authority and Membership Service Provider

Chapter 7 - Hyperledger Fabric Components (Peer, Orderer, Channel, and Ledger)

Chapter 8 - The Ordering Service & Its Implementations Using Raft or BFT

Chapter 9 - Transaction Lifecycle

Chapter 10 - Smart Contracts, Chaincode & Fabric Chaincode Lifecycle

Chapter 11 - Hyperledger Fabric Prerequisite Installation and Test

Chapter 12 - Installing and Testing a Fabric Network

Chapter 13 - Network Configuration of Peer and Orderer Nodes