Introduction to Cloud Infrastructure Technologies (LFS151)

As companies become increasingly dependent on cloud infrastructure to deliver products and services as efficiently as possible, it can be overwhelming to keep up with all the technologies available today. This free, self-paced course will give you a fundamental understanding of today's top open source cloud technology options.

Duration: 7 Days

Prerequisites for this course

- This class is designed for people who have little or no prior experience with cloud technologies. System administrators, developers, and architects new to the cloud can all benefit from the content covered in this class, especially if they are looking to evaluate which cloud technologies might be the best fit for their organization.

Outline for this course

Chapter 1 – Virtualization

Chapter 2 – Infrastructure as a Service (IaaS)

Chapter 3 – Platform as a Service (PaaS)

Chapter 4 – Containers

Chapter 5 – Containers: Micro OSes for Containers

Chapter 6 – Containers: Container Orchestration

Chapter 7 – Unikernels

Chapter 8 – Microservices

Chapter 9 – Software-Defined Networking and Networking for Containers

Chapter 10 – Software-Defined Storage and Storage Management for Containers

Chapter 11 – DevOps and CI/CD

Chapter 12 – Tools for Cloud Infrastructure I (Configuration Management)

Chapter 13 – Tools for Cloud Infrastructure II (Build & Release)

Chapter 14 – Tools for Cloud Infrastructure III (Key-Value Pair Store)

Chapter 15 – Tools for Cloud Infrastructure IV (Image Building)

Chapter 16 – Tools for Cloud Infrastructure V (Debugging, Logging, and Monitoring for Containerized Applications)

Chapter 17 – Service Mesh

Chapter 18 – Internet of Things (IoT)

Chapter 19 – Serverless Computing

Chapter 20 – OpenTracing

Chapter 21 – How To Be Successful in the Cloud