



KUBERNETES CONTAINERIZATION

NOVEMBER

KUBERNETES



01

Introduction to Kubernetes

Kubernetes Container Orchestration Architecture

Core Concepts: Objects & Nodes

Google Kubernetes Engine (GKE)

Amazon Elastic Container Services for Kubernetes (EKS)

Azure Kubernetes Service (AKS)

02

Clustering & Scaling Containers

Creating Kubernetes Cluster in EKS

Deploying Scalable, Stateless Application to EKS

03

Cluster Network in Kubernetes

Docker Networking Model

Kubernetes Networking Model

Implementing Kubernetes Model

04

Managing & Storing Data with Kubernetes

Introduction to Volumes

Persistent Volumes

Storage Classes

Dynamic Volumes: Creating on-demand Storage Volumes

Volumes Limits

05

Planning Production

Using Secrets in Applications

Kubernetes Service

High Availability in Kubernetes

Scaling Kubernetes