

Kubernetes Course Bundle – Syllabus Overview

Institution: The School of IT International Pty Ltd

Training Mode: Online | One-on-One with a Real Lecturer

Certificate: Certificate of Completion

Delivery Tools: Google Meet / MS Teams

Prerequisites for All Kubernetes Courses

- - Basic knowledge of Linux command line
- - Familiarity with containers (especially Docker)
- - Networking and system administration fundamentals
- - For OpenShift or Rancher courses: basic understanding of Kubernetes concepts
- - A personal machine (or cloud lab access) for practice

Kubernetes on Azure (AKS)

Duration: 10 Hours

Price: R10,900

Course Code: KUBE-AKS-10

Course Overview:

Deploy, manage, and scale containerized applications using Azure Kubernetes Service (AKS). Ideal for cloud engineers and DevOps teams using Microsoft Azure.

Modules:

- - Introduction to Kubernetes and AKS
- - Creating and Managing AKS Clusters
- - Deploying Applications to AKS
- - Scaling and Auto-scaling
- - Monitoring and Logging with Azure Monitor
- - RBAC and Azure AD Integration
- - Storage Integration with Azure Disks and Files

Deploying Kubernetes Applications with HELM

Duration: 20 Hours

Price: R16,900

Course Code: KUBE-HELM-20

Course Overview:

Learn how to package, configure, and deploy Kubernetes applications using Helm, the leading package manager for Kubernetes.

Modules:

- - Introduction to Helm & Chart Structure
- - Creating Helm Charts from Scratch
- - Templating with Helm Templates
- - Helm Repositories and ChartHub
- - Values.yaml & Environment Customization
- - Helm Upgrades, Rollbacks, and Releases
- - Helm 2 vs Helm 3 Features
- - Securing and Signing Charts
- - CI/CD Pipelines with Helm Integration
- - Practical Deployment Labs

Docker and Kubernetes

Duration: 20 Hours

Price: R16,900

Course Code: DOCKER-KUBE-20

Course Overview:

Master both Docker and Kubernetes. Learn container fundamentals and how to orchestrate them with Kubernetes.

Modules:

- - Docker Essentials (Images, Containers, Volumes, Networking)
- - Docker Compose & Dockerfile Deep Dive
- - Kubernetes Architecture & Components
- - Pod, ReplicaSet, Deployment, and Services
- - Networking in Kubernetes
- - Storage & ConfigMaps/Secrets

- - Working with kubectl & YAML Files
- - Basic Monitoring & Logging
- - Practical: Deploying Multi-Container Apps
- - Docker vs Containerd vs CRI-O

Managing Kubernetes with Rancher

Duration: 20 Hours

Price: R16,900

Course Code: KUBE-RANCHER-20

Course Overview:

Manage Kubernetes clusters using Rancher's GUI and automation tools. Great for multi-cluster ops and RBAC.

Modules:

- - Rancher Architecture and Setup
- - Cluster Provisioning with Rancher
- - Managing Multi-cluster Environments
- - User Access & RBAC through Rancher
- - Catalogs and Application Management
- - Monitoring and Alerts in Rancher
- - Integrating with External Authentication
- - Backup & Restore with Rancher Tools
- - Kubernetes Upgrades via Rancher
- - Real-World Use Cases and Best Practices

OpenShift 4 for Administrators

Duration: 20 Hours

Price: R16,900

Course Code: OS4-ADMIN-20

Course Overview:

Learn OpenShift 4 admin tools, app deployment, user roles, and enterprise-grade Kubernetes security features.

Modules:

- - OpenShift Architecture & Key Concepts

- - Installing OpenShift 4 (IPI vs UPI)
- - Managing Users, Roles & Projects
- - Deploying Applications on OpenShift
- - Networking & Route Configuration
- - Working with Operators
- - Persistent Storage in OpenShift
- - Monitoring, Logging & Metrics
- - Security Features & SCC
- - Cluster Maintenance and Upgrades

Banking Details

Payable to:

The School of IT International Pty Ltd

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