Traefik

Duration: 2 days (8hrs/day)

Prerequisites: Knowledge of Linux, Containers and Kubernetes

Course Objective: The objective of this training is to empower participants with comprehensive knowledge and practical skills in Traefik.

Lab Requirement: Koenig-DC

Module 1 – Getting Strated with Traefik

Traefik Use Cases

Traefik Background

Traefik Providers

Setup Lab Environment

Starting Traefik for the fits time

Load Balancing a scaled Service

Traefik Dashboard

Module 2 – Configure Traefik

Configure Traefik using Static and Dynamic Configurations

Configuring Traefik Static Configurations

Static Configuration – Lab

Static Configuration – Providers

Static Configurations – Entrypoints

Static Configuration – Provider & Entrypoint Lab

Dynamic Configuration – Routers, Middlewares and Services

Module 3 – Routers and Services

Routers and Services Overview

Routers

Services

Routers and Services Lab

Troubleshooting Router Errors Lab

Module 4 – HTTPS / TLS/ Let's Encrypt

Let's Encrypt HTTP Challenge Lab

Let's Encrypt TLS Challenge Lab

Let's Encrypt DNS Challenge Lab

Module 5 – Middlewares

Middleware Overview

Middleware – Basic Auth

Lab – Basic Auth

Middleware – Compress

Lab – Compress

Middleware – Error Pages

Lab – Error Pages

Middleware – Rate Limit

Lab – RateLimit

Middleware – Redirect HTTP to HTTPS

Lab – RedirectScheme

Module 6 – Traefik Obervability

Observability Overview

Traefik Logs

Traefik Logs Lab

Access Logs

Access Logs Lab

Metrics

Metrics Lab

Tracing

Module 7 – Operations

Operations Overview

API

CLI and Ping with Docker HEALTHCHECK

Traefik Dashboard

Operations Lab – CLI, Ping, Dashboard, and Security

Operations – Security Considerations