



Traefik

Duration 1 day(s) (TRAEFIK)

The dynamic reverse-proxy

Description

With more and more application containers everyday, the reverse-proxy world evolve. Traefik is a reverse-proxy built to work in a containerized world, able to update its configuration without service interruption. This training will help you to understand why use a dynamic reverse-proxy in a stack and how Traefik deals with configuration hot reload, securisation and monitoring. We will also talk about Traefik EE to learn about its additional features. During the workshops, we will use Traefik in various environments, learn how to configure and monitor it.

Goals

- Learn how Traefik is working and how to deploy it
- Understand the Traefik metrics
- Master how to use Traefik middlewares and how they work
- Know the differences between the open-source and enterprise versions

Public

- Developers
- Tech Lead
- Solution and technical architects
- Operators

Prerequisites

Base knowledge of the followings:

- Linux shell
- TCP/IP networking
- Docker

Structure

50% Theory, 50% Practice

Program

1. General Basics
 1. OSI Levels
 2. Layer 4 (tcp) vs layer 7 (http/s)
 3. Load Balancing
 4. Proxying
2. Traefik Introduction
 1. What is Traefik?
 2. Why Traefik?
 3. Traefik with Docker, Kubernetes and other orchestrators
 4. Deployment
 5. Configuration
3. Certificate management
 1. Let's encrypt
 2. Self-managed certificate
4. Monitoring
 1. Base metrics
 2. Traefik metrics
 3. Tooling
5. Traefik EE
 1. Why an EE?
 2. Architecture
 3. Features