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# OpenFaas training

2 days (14 hours)

## Overview

Our OpenFaas training course will immerse you in the exciting world of [serverless](#) computing, equipping you with the essential skills to create scalable and efficient applications with OpenFaaS.

Over the course of the course, you'll develop in-depth expertise in serverless development by exploring the key features and concepts of OpenFaaS in detail, and learning how to put them into practice.

You'll discover how to design and develop serverless functions, while adopting the best techniques to ensure smooth execution and automatic scalability.

This course will help you understand how OpenFaaS simplifies the deployment of your applications, and harness its potential to create high-performance solutions.

As with all our training courses, this one will introduce you to [the latest OpenFaas resources](#).

## Objectives

- Understand the basic concepts of OpenFaaS
- Prepare a development environment
- Install and configure OpenFaaS
- Develop custom functions with OpenFaaS

## Target audience

- Web developers
- Software architects

- System administrators

## Prerequisites

- A solid understanding of software development concepts
- Basic knowledge of Docker containers would be an added advantage

## Our OpenFaaS training program

### OpenFaaS architecture

- Understand the basic concepts of serverless computing
- Discover how OpenFaaS simplifies the development and deployment of functions
- Course objectives and structure
- The global architecture of OpenFaaS
- Understanding the key components
  - Gateways
  - Functions
- Discussion of how functions scale automatically
- Introduction to the OpenFaaS Web user interface

### Preparing the development environment

- Configuring the development environment
  - Hardware and software requirements
- Installing the necessary tools: such as Docker and Kubernetes
- Initial configuration of the development environment for OpenFaaS

### Installing and configuring OpenFaaS

- OpenFaaS installation
- Initial installation configuration
  - User and authorization management
- Checking the status of your OpenFaaS deployment
- Customizing advanced configurations

### Developing functions with OpenFaaS

- Using templates
- Creating custom functions
- Debugging functions and handling errors
- [PRACTICE] Creating your first function

### Advanced use of OpenFaaS

- Asynchronous calls and queue management
- Linking multiple functions (function composition)
- Data storage and sharing between functions
- [PRACTICE] Creating a complex workflow

## Security, monitoring and troubleshooting

- Security strategies
- Using authentication and authorization
- Configuring logging
- Troubleshooting methods
- Using monitoring tools
- [PRACTICE] Securing and monitoring functions

## Companies concerned

This course is aimed at both individuals and companies, large or small, wishing to train their teams in a new advanced IT technology, or to acquire specific business knowledge or modern methods.

## Positioning on entry to training

Positioning at the start of training complies with Qualiopi quality criteria. As soon as registration is finalized, the learner receives a self-assessment questionnaire which enables us to assess his or her estimated level of proficiency in different types of technology, as well as his or her expectations and personal objectives for the forthcoming course, within the limits imposed by the selected format. This questionnaire also enables us to anticipate any connection or security difficulties within the company (intra-company or virtual classroom) which could be problematic for the follow-up and smooth running of the training session.

## Teaching methods

Practical training: 60% hands-on, 40% theory. Training material distributed in digital format to all participants.

## Organization

The course alternates theoretical input from the trainer, supported by examples, with brainstorming sessions and group work.

## Validation

At the end of the session, a multiple-choice questionnaire verifies the correct acquisition of skills.

## Certification

A certificate will be awarded to each trainee who has completed the entire course.

