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Register

Temporal Training

2 days (14 hours)

Overview

Temporal is a sustainable orchestration platform designed to simplify the management of complex distributed processes.

It allows you to write reliable workflows directly in code while ensuring automatic recovery, error management, and state persistence.

Our Temporal training will enable you to understand the fundamental mechanisms of sustainable orchestration and implement robust workflows in microservices architectures.

You will learn how to manage retries, timeouts, compensation, and communication between services without manually implementing state management.

At the end of this training, you will be able to design resilient, production-ready distributed processes.

Like all our training courses, this one will introduce you to **the latest stable version** of the technology and its new features.

Objectives

- Understand sustainable orchestration.
- Implement reliable workflows with Temporal.
- Manage errors and compensations.
- Design resilient distributed processes.
- Prepare for production deployment.

Target audience

- Experienced backend developers
- Software architects
- Tech leads
- Microservices engineers
- Distributed systems architects

Prerequisites

- Experience in backend development
- Knowledge of microservices architectures
- Basic understanding of distributed systems

Temporal training

Fundamentals of sustainable orchestration

- Problems with distributed systems
- Limitations of manual and cron retries
- Principle of sustainable execution
- Difference between orchestration and choreography
- General architecture of Temporal
- Hands-on workshop: Creating a simple first workflow.

[Day 1 - Afternoon] Workflows

and Activities

- Definition of a Workflow
- Role of Activities
- Automatic retry management
- Timeouts and error policies
- State management without manual business logic
- Hands-on workshop: Implementing a multi-step workflow.

Error management and Saga Pattern

- Compensation strategies
- Implementing the Saga Pattern
- Long transactions
- Partial failure management
- Idempotence and reliability

Signals, Queries, and Communication

- Using Signals
- Reading status with queries
- Managing External Interactions
- Long-Running Workflows
- Synchronization and coordination
- Hands-on workshop: Dynamic interaction with a workflow in progress.

[Day 2 - Afternoon] Scalability

and architecture

- Task Queues
- Workers and sizing
- High availability
- Local deployment vs. cluster
- Temporal Cloud

Production and best practices

- Workflow versioning
- Observability and monitoring
- Migration management
- Security and isolation
- Advanced orchestration patterns
- Hands-on workshop: Designing a production-ready workflow architecture.

Target companies

This training is intended for both individuals and companies, large or small, wishing to train their teams in advanced new IT technologies or to acquire specific business knowledge or modern methods.

Placement at the start of training

The positioning at the start of the training complies with Qualiopi quality criteria. Upon final registration, the learner receives a self-assessment questionnaire that allows us to assess their estimated level of proficiency in different types of technologies, as well as their expectations and personal objectives for the upcoming training, within the limits imposed by the selected format. This questionnaire also allows us to anticipate certain connection or internal security issues within the company (intra-company or virtual classroom) that could be problematic for the monitoring and smooth running of the training session.

Teaching methods

Practical training: 60% practical, 40% theory. Training materials distributed in digital format to all participants.

Organization

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

Assessment

At the end of the session, a multiple-choice questionnaire is used to verify that the skills have been correctly acquired.

Certification

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