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Upsun Fixed Training

(formerly Platform.sh)

2 days (14 hours)

Overview

Upsun Fixed, the successor to Platform.sh, is a cloud platform designed to deploy, manage, and scale web applications using automated and reproducible environments.

This Upsun Fixed training course will teach you how to deploy applications, configure services, and manage environments using Git and the Upsun CLI. You'll learn how to create isolated environments to develop and test your changes before deploying them to production.

You'll be able to configure your applications, databases, services, and routes using the `.platform.app.yaml`, `.platform/services.yaml`, and `.platform/routes.yaml` files. You'll also learn how to automate your deployment workflows and effectively manage the lifecycle of your environments.

The training also covers application optimization and monitoring using logs, metrics, and diagnostic tools. You'll discover how to identify performance issues, adjust resources, and use Blackfire to analyze application performance.

By the end of this training, you will be able to deploy and administer an Upsun Fixed project, secure access and data, implement backups and restores, and run your applications in production-like conditions.

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

Objectives

- Understand the architecture and operation of Upsun Fixed
- Create, configure, and deploy an application using Git and the Upsun CLI
- Configure applications, services, routes, and environments
- Set up a deployment workflow with development, test, and production environments
- Monitor, diagnose, and optimize application performance
- Secure access, manage backups, and maintain an Upsun Fixed platform

Target Audience

- DevOps Engineers
- Platform Engineers
- Cloud Architects
- Developers
- Cloud Administrators

Prerequisites

- Basic knowledge of Git and version control workflows
- General knowledge of web application deployment
- Basic understanding of the command line and cloud environment administration
- An Upsun account to complete the hands-on exercises

Upsun Fixed Training Program

[Day 1 - Morning]

Introduction to Upsun Fixed and its architecture

- Understand the evolution from Platform.sh to Upsun and the positioning of Upsun Fixed
- Understand how a Cloud Application Platform works and its benefits for development teams
- Distinguish between Upsun Fixed and Upsun Flex and identify their main use cases
- Explore the architecture of a project: applications, services, router, workers, and environments
- Understand the build and deployment cycle of an application on Upsun Fixed
- Hands-on workshop: Explore an Upsun Fixed project and identify its various components

[Day 1 - Afternoon]

Create and deploy a project using Git and the CLI

- Create and configure a project in Upsun Fixed
- Install, authenticate, and get started with the Upsun CLI

- Connect a Git repository and understand its role in the deployment process
- Deploy your first application and follow the various steps of the build
- Manage a project from the console and the command line
- Hands-on workshop: Create a project, connect your repository, and perform your first deployment with Git

Configure applications and services

- Configure the application with `.platform.app.yaml`: runtime, resources, dependencies, and commands
- Declare databases, caches, and search engines with `.platform/services.yaml`
- Configuring routes and HTTP traffic with `.platform/routes.yaml`
- Connect applications to services using relationships and environment variables
- Configure the workers, scheduled tasks, persistent storage, and mounts required by the application
- Hands-on workshop: Deploy a database-connected application and configure its routes and services

[Day 2 - Morning]

Manage environments and the deployment workflow

- Understand how isolated environments work and how they relate to Git branches
- Create development, test, staging, and production environments
- Clone code, services, and data to test changes without affecting production
- Master branching, merging, and continuous deployment workflows
- Manage the environment lifecycle and rollback strategies
- Hands-on workshop: Create a preview environment, deploy a change, and then promote it to the main environment

[Day 2 - Afternoon]

Optimize, monitor, and troubleshoot applications

- Analyze resource usage and identify key performance factors
- Leverage infrastructure metrics, logs, and activity data to monitor applications
- Use Blackfire to identify application performance issues
- Diagnose build, deployment, service, and configuration errors
- Adapt resources and architecture to meet availability, performance, and scalability requirements
- Hands-on Workshop: Diagnosing a Malfunctioning Application Using Logs and Metrics, Then implement the necessary optimizations

Securing and maintaining an Upsun Fixed platform

- Manage users, roles, access, and authentication at the organizational and project levels
- Protect secrets and sensitive variables used by applications
- Configure domains, certificates, and traffic security mechanisms
- Implement backups and restores to protect applications and their data
- Organize updates, maintenance, and day-to-day operations for the environments
- Hands-on workshop: Securing a project, creating a backup, and performing a post-incident recovery scenario

Target Audience

This training is intended for both individuals and companies—large or small—that wish to train their teams in new, advanced IT technologies or to acquire specific industry knowledge or modern methodologies.

Assessment upon enrollment

The pre-training assessment complies with Qualiopi quality standards. Upon final registration, the learner receives a self-assessment questionnaire that allows us to evaluate their estimated proficiency with various types of technologies, as well as their expectations and personal goals 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 pose challenges for monitoring and ensuring the smooth running of the training session.

Teaching Methods

Hands-On Training: 60% Practical, 40% Theoretical. Training materials distributed in digital format to all participants.

Organization

The course alternates between theoretical input from the instructor—supported by examples and reflection sessions—and group work.

Assessment

At the end of the session, a multiple-choice quiz is administered to verify that participants have successfully acquired the skills.

Certification

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