AMBIENT-IT

+33 (0)1 48 10 09 46
formation@ambient-it.net
140 Avenue Jean Lolive 93500 Pantin - France

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Port Training: Create an Internal Developer Portal

2 days (14 hours)

Overview

Port is an Internal Developer Portal solution designed to help platform teams centralize their software catalog, standardize engineering practices, and offer self-service to developers.

It enables the creation of a developer experience tailored to the organization, existing tools, and internal workflows.

Our Port training will enable you to design and implement a useful, clear, and actionable Internal Developer Portal for DevOps, SRE, platform, and development teams.

You will learn how to model a software catalog using blueprints, create entities and relationships, connect Port to your existing tools, and structure the information needed to improve visibility into your services.

By the end of the training, you will be able to create scorecards to measure the production readiness, security, or compliance of your components, and then set up self-service actions to reduce repetitive requests to platform teams.

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 challenges of an Internal Developer Portal and Platform Engineering
- Model a software catalog with blueprints, entities, and relationships
- Connect Port to DevOps tools, Git, CI/CD, Kubernetes, or ticketing systems

- Create scorecards to track the maturity, quality, and compliance of services
- Implement self-service actions to automate developer requests
- Defining a strategy for the portal’s governance, adoption, and deployment

Target Audience

- Platform Engineers
- DevOps and SRE Engineers
- Cloud and Application Architects
- Developer Experience Managers
- Tech leads and teams responsible for standardizing engineering practices

Prerequisites

- General knowledge of DevOps practices
- Familiarity with CI/CD, Git, or Kubernetes is a plus
- Understanding of internal platform or developer tooling challenges

Technical requirements

- A computer with a modern web browser
- A stable internet connection

Course Schedule

[Day 1 - Morning]

Understanding Port and the challenges of an Internal Developer Portal

- Understand Port’s role in a Platform Engineering approach
- Identify the challenges of an Internal Developer Portal: autonomy, standardization, visibility, and reduced cognitive load
- Understanding key concepts: software catalog, blueprints, entities, relationships, scorecards, and self-service actions
- Position Port relative to Backstage, Compass, existing DevOps tools, and internal platforms
- Identify use cases: service ownership, production readiness, golden paths, developer self-service, and governance
- Define an initial portal vision tailored to DevOps, SRE, platform, and development teams

[Day 1 - Afternoon]

Model the software catalog using Blueprints

- Understand the role of blueprints in modeling the Port portal
- Create entities to represent services, teams, environments, cloud resources, Git repositories, or Kubernetes clusters
- Define essential properties: owner, criticality, environment, lifecycle, language, dependencies, and maturity level
- Create relationships between entities to represent the application ecosystem
- Structure a software catalog that is readable, actionable, and tailored to the company's needs
- Hands-on workshop: Create a Port software catalog with blueprints, entities, and relationships between services, teams, and environments

Integrations and data feeding for the portal

- Understand the different ways to populate Port: interface, API, integrations, YAML files, and automations
- Connect Port to existing tools: GitHub, GitLab, Jira, Kubernetes, Terraform, CI/CD, or observability
- Automatically import information from repositories, pipelines, clusters, or ticketing tools
- Define the relevant data to expose to developers and platform teams
- Implement a reliable update strategy to prevent an outdated catalog
- Identify best practices for connecting Port without multiplying sources of truth

[Day 2 - Morning]

Scorecards, Standards, and Production Readiness

- Understand the role of scorecards in measuring the maturity, quality, security, and compliance of services
- Define production readiness criteria: documentation, ownership, monitoring, alerting, SLOs, security, and CI/CD
- Create scorecard rules based on catalog properties and relationships
- Visualize compliance levels and identify at-risk services
- Use scorecards to drive engineering standards without unnecessarily hindering teams
- Hands-on workshop: create a production readiness scorecard and analyze the maturity of several services

[Day 2 - Afternoon]

Self-service actions and developer workflows

- Understanding self-service actions and their role in developer autonomy
- Create action forms to trigger managed workflows
- Connect an action to a CI/CD workflow, an API, a script, or an automation tool
- Set up approvals, parameters, validations, and safeguards tailored to platform teams

- Create golden paths to standardize recurring requests: service creation, provisioning, rollback, or configuration changes
- Hands-on workshop: Create a self-service action to trigger a controlled workflow from the Port portal

Governance, adoption, and enterprise deployment

- Define a portal governance strategy: ownership, standards, entity lifecycle, and responsibilities
- Organize adoption by teams: personas, priority use cases, documentation, and support
- Build a roadmap for phased deployment: MVP, integrations, scorecards, self-service, and extensions
- Measuring the portal's value: reduction in support tickets, improved onboarding, visibility of services, and compliance
- Identify common pitfalls: overly complex catalog, outdated data, lack of ownership, and unused self-service
- Hands-on workshop: designing a roadmap for an Internal Developer Portal Tailored to a target organization

Target companies

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

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 in various types of technologies, as well as their expectations and personal goals regarding 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

Practical Course: 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 reflection sessions, and group work.

Assessment

At the end of the session, a multiple-choice questionnaire is used to verify the correct acquisition

of the skills.

Certification

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