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Backstage training: The platform for creating developer portals

3 days (21 hours)

Presentation

Our Backstage training course will guide you through the advanced aspects of the platform, allowing you to delve into the essential mechanisms needed to optimize the management of your services.

Thanks to this Backstage training, your team will be able to explore the platform's advanced functionalities in depth. They'll be able to efficiently create, document and monitor services, while optimizing development and deployment processes.

You can then apply these skills to optimize your operations, strengthen the consistency of your services and ensure informed decision-making for a successful digital future.

This course will introduce the [latest features](#) and functionalities available in Backstage.

Objectives

- Acquire complete mastery of Backstage's advanced functions
- Set up automated development and deployment workflows
- Customize the user interface and extend functionality with plugins.

Target audience

- IT managers
- DevOps engineers

- Software developers
- Systems architects

Prerequisites

Experience in using project management tools and CI/CD pipelines is a plus.

Our Backstage training program

Introduction to Backstage

- What is Backstage and why is it used?
- Benefits of using Backstage in service management
- Overview of the Backstage ecosystem and its community
- Common Backstage use cases
- Key players involved in using Backstage
- History and development of Backstage
- Introduction to key concepts: Services, Entities, Metadata

Architecture and Components

- Backstage architecture and components
- Details on Frontend, Backend and Databuilder roles
- Catalog: central role and entity management
- Key components of the Backstage user interface
- Data flow through Backstage components
- Integrating Backstage with external tools
- Exploring data schemas and relationships between entities

Installation and configuration

- Technical requirements for installing Backstage
- Installing Backstage step by step
- Initial configuration and essential parameters
- Customize user interface appearance
- Plugin and extension management
- Access authorization configuration
- Deployment as a Web application or in a container

Service and Entity Management

- Creating and managing services in Backstage
- Documenting services with metadata
- Use tags to organize and filter services
- Creating custom entities and relationships between them

- Example of complex entity modeling
- Using APIs and command line interfaces
- Typical workflow for adding a new service

CI/CD and DevOps integration

- Backstage integration with CI/CD tools
- Configuring CI/CD pipelines for services
- Follow-up of build, test and deployment stages
- Viewing pipeline results in Backstage
- Integration of deployment automation
- Customize notifications and alerts
- DevOps practices promoted by Backstage

Customization and scalability

- Customizing the Backstage user interface
- Modifying themes and styles
- Creating custom UI components
- Add plugins to add new features
- Development and deployment of custom plugins
- Explore the Backstage plug-in catalog
- Best practices for maintaining and updating extensions

Production Deployment

- Effective documentation strategies with metadata
- Team and authorization management
- Data and access security in Backstage
- Performance monitoring and optimization
- Deployment and production update process

Companies concerned

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

Teaching methods

Practical course: 60% Practical, 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.

Sanction

A certificate will be issued to each trainee who completes the course.