

Updated on 29/11/2023

Sign up

Bamboo CI/CD training: Code automation and deployment

2 days (14 hours)

Presentation

Bamboo CI/CD training will enable you to automate and deploy code using a cloud-based continuous integration and delivery server. During the course, you'll learn how to create builds and deployment plans. You'll gain in reliability and flexibility for all your software deliveries. Bamboo integrates the Atlassian suite, which will provide you with an optimal experience if you're a Jira Software or Bitbucket user. You'll be able to efficiently resolve all error problems and integration issues. Like all our training courses, this one will be presented with the latest **stable** version and all its new features (9.1 released in December 2022 at the time of writing).

Objectives

- How to use a CI/CD system
- Creating and packaging code with Bamboo
- Provide application configuration files for targeted environments

Target audience

DevOps engineers.

Prerequisites

Experience in DevOps engineering.

Our Bamboo CI/CD training program

Introduction

- What is Atlassian Bamboo?
- What is continuous integration (CI)?
- What is continuous delivery (CD)?

Preparing the development environment

- Installing and configuring Atlassian Bamboo
- Connecting Bamboo to an external database
- Care platforms
- Using Bamboo as a service

Building agents and artifacts

- Use of elastic building and construction materials
- Creating, compressing and downloading artifacts

Construction drawings

- Building a project
- Addition to the construction plan
- Implementation of the construction plan
- Executing unit tests

Deployments

- Deploying artifacts
- Application deployment in targeted environments
- Deployment with triggers

Administration

- User, group and authorization management
- SMTP configuration
- Automated generation and testing of software source code status.
- Update successful and failed builds
- Use of reporting tools for statistical analysis
- Visibility and management of artifacts and publishing environments

Security

- Agent authentication
- Securing against SSRF attacks
- Trusted key control
- System-wide encryption
- Database password encryption
- Password encryption in server.xml
- Serialization protection methods

Companies concerned

This training 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.

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 training to come, 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 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.