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**Business Domain**
High Tech and Software Platforms

**Project Type**
DevOps Tool

# Forming an R&D Center with 30+ FTE to Build an Enterprise-Grade Continuous Delivery Platform

## Client

CloudBees, the enterprise software delivery company, provides the industry-leading DevOps technology platform that enables developers to focus on what they do best: Building stuff that matters.

## Project

To set up an R&D center to develop and support the CloudBees CD/RO® (Continuous Delivery/Release Orchestration) solution. The solution is an enterprise-grade DevOps release automation platform that simplifies provisioning, building, and releasing of multi-tiered applications and microservices.

## Objective

The Client required a seasoned team of experts to deliver CD/RO solution that makes releases of massive, complicated projects faster, more secure, repeatable, and more predictable.

## Team Reinforcement

Building such a complicated product is a challenging task that forced CloudBees to search for a trusted partner to resolve the talent shortage. The Client sought the following A-players: architects, engineers (system, platform, backend, plugins, cloud, frontend), DevOps, QA, and UX/UI designers.

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# Challenge

There are a lot of open-source tools for building simple CI/CD processes for small projects. However, larger enterprises require more sophisticated release processes to comply with their policies and standards. Besides, every enterprise relies on its own specific infrastructure: cloud services, operating systems, databases, ERPs, etc.

The Client's CD/RO product must support the standard technologies and practices to ensure the required level of flexibility and autonomy:

- on-premise software compatibility with the most used operating systems (Linux, Windows, MacOS)
- support of all popular databases, including Oracle, MS SQL, MySQL, PostgreSQL
- fully automated scalability during the building/deployment process
- support the native cloud services of AWS, GCP, and Azure

## Quick Facts

✓ 4 years of successful cooperation, <10% attrition rate

✓ 20+ successful releases, 4 latest product versions were supported simultaneously

✓ Solid test coverage: unit, integration, end-to-end, performance, security tests

### Technologies

Java / Spring / Hibernate / C++ / Groovy / Perl / Oracle / MS SQL / MySQL / PostgreSQL / Docker / Kubernetes / AWS / GCP / TypeScript / React / Kotlin / Selenium / Spock Framework / JMeter / Gatling / LoadRunner

# Solution

★ **01**

The Client received an R&D development unit comprising 30 to 40 FTE and 6 dedicated SCRUM teams with clear missions and focused objectives.

★ **02**

Continuous product improvement by combining new features implementation with maintenance of existing functionality.

★ **03**

The development team uses the developed product for its own CI/CD processes.

★ **04**

Development and support of up to 80 plugins for specific integrations.

★ **05**

Building L3 support process and rotated team.

★ **06**

Training and personal development of the R&D team to foster hard competencies and domain expertise.

# Client Reference

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*We now have a clear view of the entire process—one that is secure, repeatable and predictable.*

**Julius, DevOps Evangelist**

## Benefits and Results

★ Faster releases, improved collaboration, and a governed release process across CD/RO users' software development lifecycle.

★ The product saved up to $2M, unlocked 1,500+ dev hours, and reduced 60% of the risks for CD/RO users.

★ Intetics R&D team comprised the unique tech expertise, CI/CD domain knowledge, and end-users' business specifics understanding to build best-of-breed CD/RO solution.

**Techstack:**

Java, Spring, Hibernate, C++, Groovy, Perl, Oracle, MS SQL, MySQL, PostgreSQL, Docker, Kubernetes, AWS, GCP, TypeScript, React, Kotlin, Selenium, Spock Framework, JMeter, Gatling, LoadRunner

**Team: 30+ FTE**

Architect, Delivery Leads, Backend Engineers, System Engineers, Front-End Engineers, Plugins Developers, QA Engineers, DevOps Specialists, UI/UX