

# Automation with CI/CD

## description

Is your development team overloaded with manual application lifecycle management (ALM) tasks that yield no real value? Do they lack a genuine integration, delivery, and deployment strategy? All these costly, tedious, and inefficient ALM processes can benefit from adopting a fully automated pipeline with continuous integration and continuous delivery (CI/CD).

A fully automated pipeline helps deliver fast, secure, and reliable services. This is why all well-executed development processes rely on highly optimized, modernized, and automated CI/CD pipelines. Automated tests, efficient monitoring, automated security checks, short feedback cycles, and quick rollback options are just some of the advantages offered by this technological approach.

adesso's Automation with CI/CD consultancy helps you get started with CI/CD implementation and form an automated workflow that meets your needs and eases your daily processes.

The Automation with CI/CD service is offered in four stages:

**Stage I** : Assessment and Analysis

**Stage II** : E2E Pipeline Design and Tool Selection

**Stage III**: Implementation (Integration & Testing)

**Stage IV**: CI/CD Training

### Service Metrics

Effort : 15-30 Person/Day

Duration : 15-20 Days (minimum)

Team structure : 1 DevOps Engineer

### Tooling



Jenkins



GitLab CI



Argo CD



TeamCity



Travis CI



Azure DevOps



AWS Code Pipeline

## motivations

- ▶ Costly, unreliable, and human error-prone ALM practices that lead to a long time-to-market
- ▶ Unhappy developers overloaded with inefficient and tedious manual software development processes
- ▶ Siloed teams, which lead to inadequate communication between operation and development
- ▶ Lack of traceability for DevOps cycles
- ▶ Technical dependencies due to unique environments

## prerequisites

- ▶ Access to the code repository
- ▶ Access to all environments (development, test, QA, etc.)
- ▶ Permissions for monitoring tools
- ▶ Access to CI/CD tools

## deliverables

- ▶ A strategy roadmap and toolkit
- ▶ Fully automated and customized CI/CD pipelines
- ▶ Know-how transfer via training

## recommended adesso services

- ▶ Architectural Design
- ▶ Architectural Enablement

## references

- ▶ PepsiCo
- ▶ Philip Morris International
- ▶ Mercedes-Benz
- ▶ Pudo

## contacts



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