



SAP Continuous Integration and Delivery – Update on latest Features

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Agenda

- Recap SAP Solutions for Continuous Integration and Delivery
- SAP Continuous Integration and Delivery Updates
 - Demos

Overview of SAP Solutions for Continuous Integration and Delivery

Continuous Integration and Delivery by SAP

Our mission

... is to enable the implementation of CI/CD for the development of business solutions on SAP BTP and thereby, strongly focus on our customers' and partners' needs.

You can choose from two different solutions depending on your level of **expertise** and the level of **flexibility** you require:



SAP Continuous Integration and Delivery

- Simplify and speed up your CI/CD setup through predefined pipelines that are ready-to-use
- Follow SAP recommendations and best practices
- Don't worry about the underlying CI/CD infrastructure

Simplicity

for typical SAP business application developers



Project "Piper"

- Build custom pipelines with the help of our shared library
- Reuse your own CI/CD infrastructure
- Simplify your tool setup through our set of Docker images

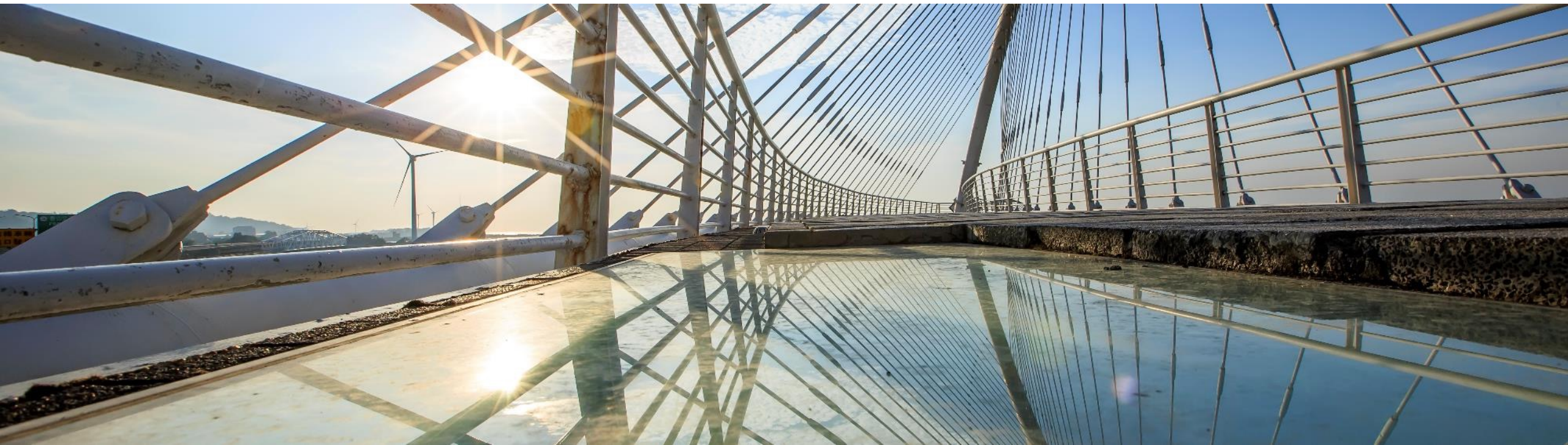
+ CI/CD Best Practices Guide

Apply CI/CD principles to SAP-specific technologies

Flexibility

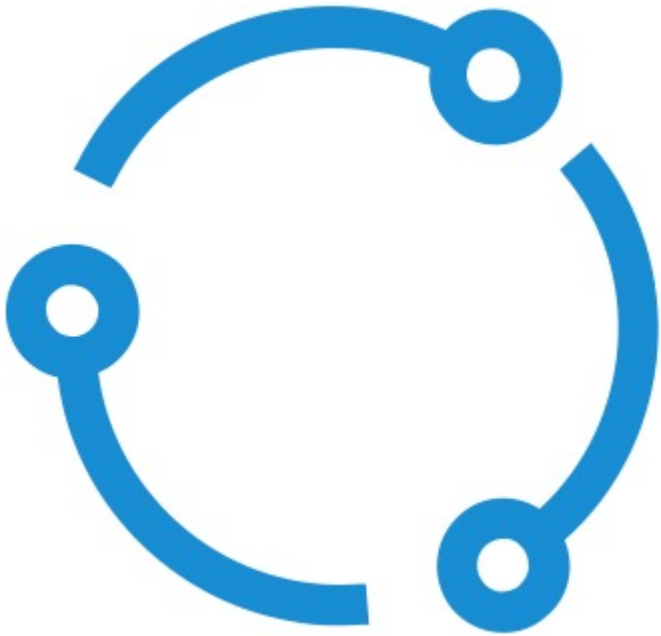
to automate complex and customer-specific development scenarios

SAP Continuous Integration and Delivery



SAP Continuous Integration and Delivery

Our value proposition



Configure and run predefined pipelines for continuous integration and delivery

Simple onboarding

- SAPUI5 projects
- projects with the SAP Cloud Application Programming Model (CAP)
- SAP Integration Suite Artifacts (Integration Flows)

DEMOS

SAP Integration Suite Artifacts Pipeline

The screenshot displays the SAP Continuous Integration and Delivery (CI/CD) interface. The top navigation bar includes the SAP logo, 'SAP Help Portal', 'SAP Continuous Integration and Delivery', and links for 'Browse by Product' and 'SAP Learning Journeys'. The main header is 'SAP Continuous Integration and Delivery' with a search bar and a 'Download PDF' button.

The left sidebar shows a 'Table of Contents' with sections: 'Initial Setup', 'Configuration', 'Supported Pipelines', 'SAP Cloud Application Programming Model', 'SAP Fiori in the Cloud Foundry Environment', 'SAP Fiori in the Neo Environment', 'SAP Integration Suite Artifacts', 'Development', 'Monitoring and Troubleshooting', and 'Data Protection and Privacy'. The 'SAP Integration Suite Artifacts' section is expanded, showing options to 'Configure an SAP Integration Suite Artifacts Job in the Job Editor' or 'Configure an SAP Integration Suite Artifacts Job in Your Repository'.

The main content area is titled 'SAP Integration Suite Artifacts' and provides instructions on configuring a CI/CD pipeline. It lists two options: 'Configure an SAP Integration Suite Artifacts Job in the Job Editor' and 'Configure an SAP Integration Suite Artifacts Job in Your Repository'. A tip suggests that configuring the job as code in the source repository provides more flexibility.

The right panel shows the 'MyFirstIntegrationFlow' pipeline configuration. It includes a table of jobs, a 'Builds' section, and a 'GENERAL INFORMATION' section. The 'Builds' section shows a build for 'Branch main' with a status of 'SUCCESS' and a duration of 2 min 37. The 'GENERAL INFORMATION' section shows the repository 'MyFirstIntegrationFlow', branch 'main', pipeline 'SAP Integration Suite Artifacts', version '1.0', and state 'ON'. The 'BUILD RETENTION' section shows logs kept for 7 days and a maximum of 50 build items.

The bottom right panel shows the 'Build #1 Stages' section, which lists the stages of the build: 'Init' (SUCCESS, 10 sec), 'Upload' (SUCCESS, 13 sec), 'Deploy' (SUCCESS, 1 min 31), 'Integration Test' (SKIPPED, 175 ms), and 'Integration Flow Result' (SUCCESS, 5 sec).

[SAP Integration Suite Artifacts pipeline](#)

[SAP Continuous Integration and Delivery for SAP Integration Suite Artifacts](#)

SAP Cloud Application Programming Model Pipeline

The screenshot shows the 'Create Job' configuration page in the SAP CI/CD interface, specifically the 'Stages' tab. The page is divided into several sections for configuring different stages of the pipeline:

- Build:** Includes a 'Build Tool' dropdown set to 'mta', a 'Maven Static Code Checks' toggle set to 'OFF', and a 'Lint Check' toggle set to 'OFF'. There is also a checkbox for 'Fail on Error'.
- Additional Unit Tests:** Includes an 'npm Script' input field with the value 'test' and a toggle set to 'OFF'.
- Acceptance Stage:** Includes a toggle set to 'OFF'.
- Deploy to Cloud Foundry Test Space:** Includes input fields for 'API Endpoint', 'Org Name', 'Space', and 'Credentials'.
- UIVeriS Test:** Includes input fields for 'Configuration Path', 'Base URL', and 'Application Credentials'.
- Release:** Includes a toggle set to 'OFF'.
- Deploy to Cloud Foundry Production Space:** Includes input fields for 'API Endpoint', 'Org Name', 'Space', and 'Credentials'.
- Upload to Cloud Transport Management:** Includes input fields for 'Node Name' and 'Service Key'.

The screenshot shows the 'my-cap-app' configuration page in the SAP CI/CD interface, specifically the 'Stages' tab. The page is divided into several sections for configuring different stages of the pipeline:

- Configuration Mode:** A dropdown menu set to 'Job Editor'.
- Build:** Includes a 'Build Tool' dropdown set to 'npm', a 'Lint Check' toggle set to 'OFF', and a checkbox for 'Fail on Error'.
- Additional Unit Tests:** Includes an 'npm Script' input field with the value 'test' and a toggle set to 'OFF'.
- Release:** Includes a toggle set to 'OFF'.
- Deploy to Cloud Foundry:** Includes a toggle set to 'OFF'.
- Application:** An input field with a 'Save' button and a 'Discard' button.

A close-up of the 'Build Tool' dropdown menu. The menu is open, showing a list of build tools: 'npm', 'maven', 'mta', and 'npm'. The 'npm' option is currently selected and highlighted in blue.

[Configure and Run a Predefined SAP Continuous Integration and Delivery \(CI/CD\) Pipeline Tutorial](#)

[SAP Continuous Integration and Delivery for CAP](#)

GitLab and Bitbucket Server (on-premise) WebHook Support

Add Repository

General Information | Webhook Event Receiver

*Name:

*Clone URL:

Credentials:

Cloud Connector:

WEBHOOK EVENT RECEIVER

Type:

*Webhook Credential:

State:

[Add a Webhook in GitLab](#)

[Add a Webhook in Bitbucket Server](#)

[What's new in SAP Continuous Integration and Delivery – Q2 Release Highlights](#)

Acceptance Stage and UIVeri5Tests

Acceptance Stage

ON

Deploy to Cloud Foundry Test Space

*API Endpoint:

https://api.cf.eu10.hana.ondemand.com

*Org Name:

trial

*Space:

dev

*Credentials:

cfdeploy

▼

UIVeri5 Test

ON

*Configuration Path:

uiveri5/conf.js

*Base URL:

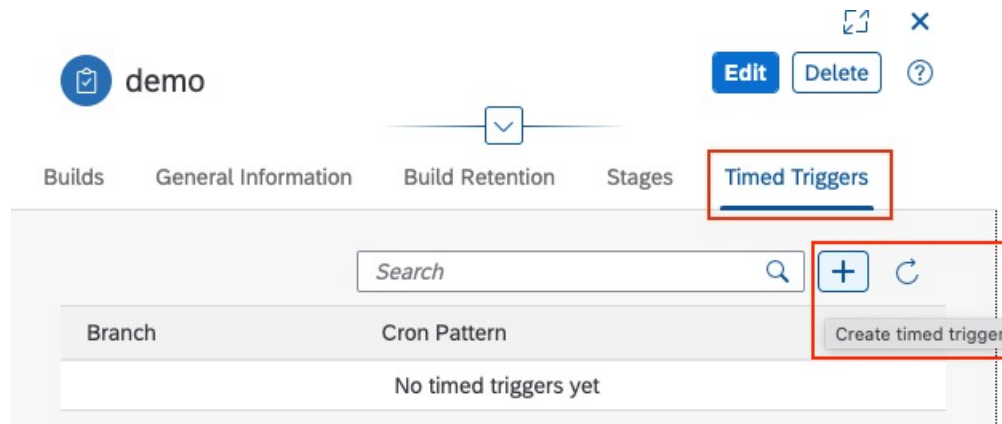
https://trial-dev-bas-sample-app-approuter.cfapps.eu10.hana.ondemand.com/nsHTML5Module/ind...

Application Credentials:

▼

[Exciting New Features in SAP Continuous Integration and Delivery – September Release Highlights](#)

Time Triggers for Jobs



Create Timed Trigger

*Branch:

*Cron Pattern:

[Manage Timed Triggers for Jobs](#)

[Exciting New Features in SAP Continuous Integration and Delivery – September Release Highlights](#)

Export Job Configuration Data

STAGES

Configuration Mode: Job Editor ⓘ 6 YML

General Parameters

Flow ID: MyFirstIntegrationFlow

Design Time Authentication: piapikey

Upload

Flow Name: MyFirstIntegrationFlow

Package ID:

Deploy

Configuration (config.yml) ⓘ

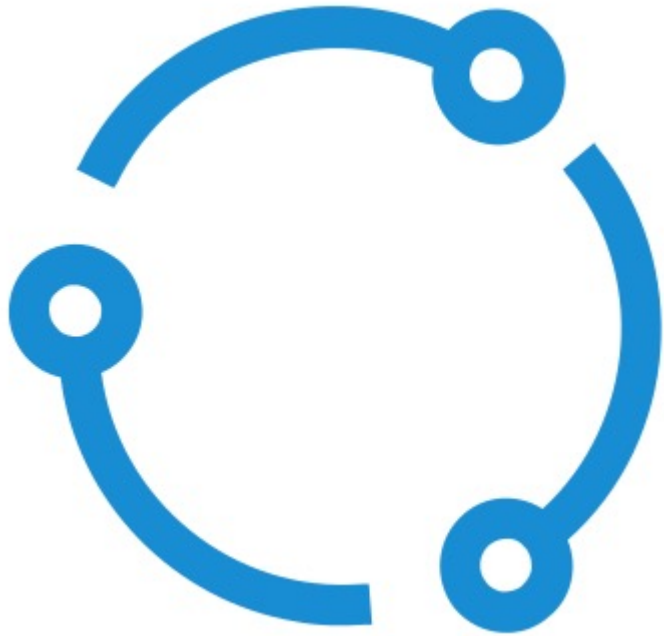
To use infrastructure as code process, copy the content to the `.pipeline/config.yml` file in your repository and set configuration mode to 'Source Repository'. ×

```
---
general:
  cpiApiServiceKeyCredentialsId: "piapikey"
  integrationFlowId: "MyFirstIntegrationFlow"
stages:
  uploadStage:
    enabled: true
  deployStage:
    enabled: true
  integrationTestStage:
    enabled: false
steps:
  integrationArtifactUpload:
    packageId: ""
    integrationFlowName: "MyFirstIntegrationFlow"
  integrationArtifactTriggerIntegrationTest:
    contentType: ""
    messageBodyPath: ""
    iFlowServiceKeyCredentialsId: ""
```

Copy Close

[Export Job Configuration Data](#)

SAP Continuous Integration and Delivery Outlook

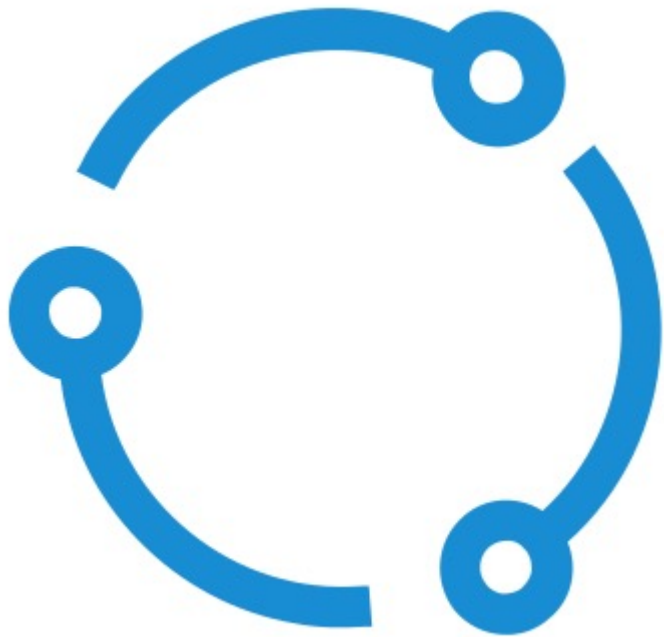


- Support further extension scenarios
- Support SAP BTP, Kyma environment
- Working on productivity features
- Additional data centers coverage

[Roadmap Explorer](#)

SAP Continuous Integration and Delivery

Commercialization Information



- [CPEA \(EU, US, APJ\)](#)
- [Pay-As-You-Go](#)
- [Trial](#)
- [Free Tier](#)
- [SAP Store](#)

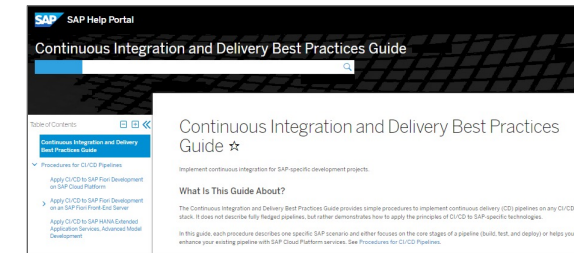
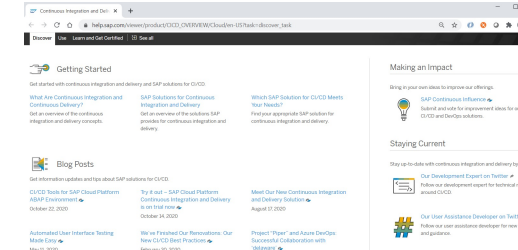
- [Cloud test, demo and development](#)
- [CPEA for OEM](#)

Further information



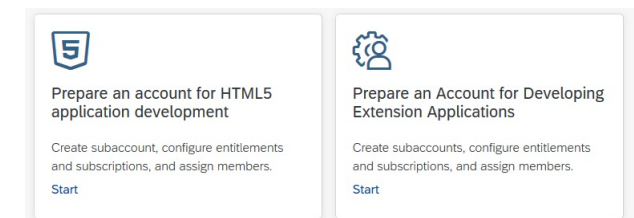
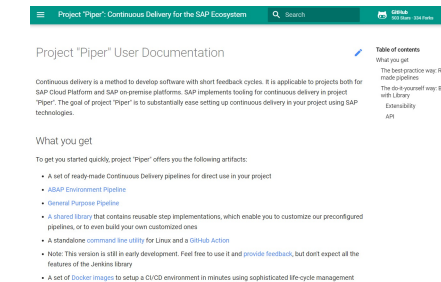
Learn more about DevOps with SAP:

- [SAP Continuous Integration and Delivery](#)
- [Continuous Integration and Delivery by SAP](#)
- [SAP Solutions for Continuous Integration and Delivery](#)
- [Project “Piper”](#)
- [Continuous Integration and Delivery Best Practices Guide](#)



Try out our services on SAP BTP:

- Set up our services in the trial environment for [SAP BTP](#)
- Run our boosters and missions in SAP Discovery Center
 - [Setup for SAP S/4HANA side-by-side UI Extensions on SAP Cloud Platform](#)
 - [Extend SAP S/4HANA On Premise business processes on SAP Cloud Platform](#)



SAP Continuous Influence

Are you missing any SAP BTP features in the area of platform foundation?

Contribute to our SAP Continuous Influence session: <https://influence.sap.com/sap/ino/#campaign/2277>

- Browse through existing improvement requests submitted by other customers and partners & vote for them
- Submit own requests
- Requests that reach the vote threshold will be assessed in the next review cycle



Available categories in the *SAP BTP – Platform Foundation* session:

- Multi-cloud
- Security services
- **Continuous Integration & Delivery**
- Lifecycle management

Thank you.

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