



SAP Continuous Integration and Delivery – Update on latest Features

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PUBLIC

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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

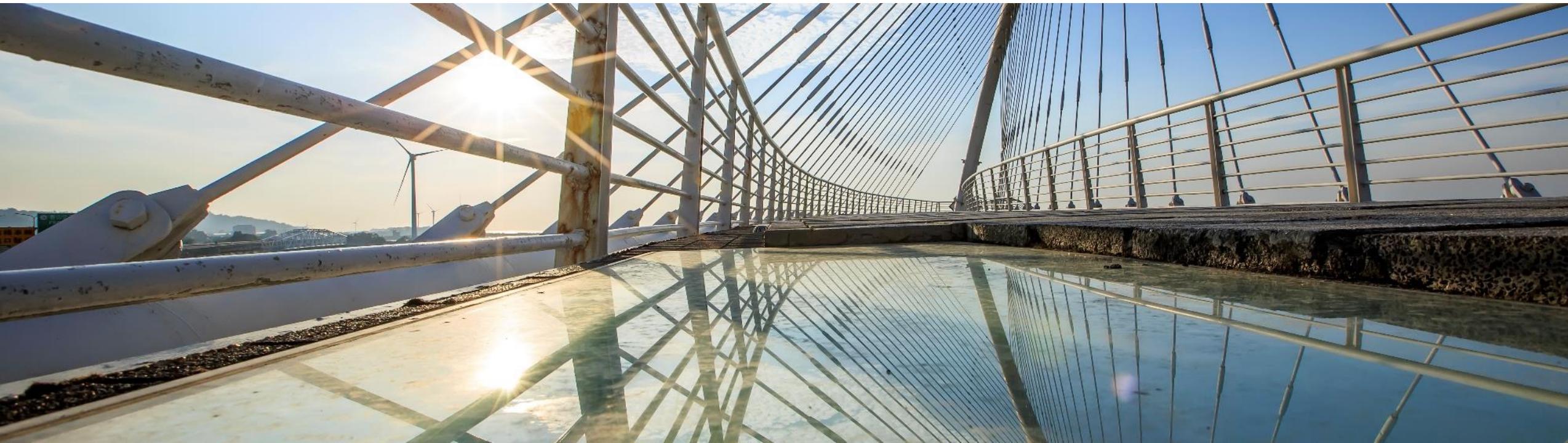
+ CI/CD Best Practices Guide

Apply CI/CD principles to SAP-specific technologies

Flexibility

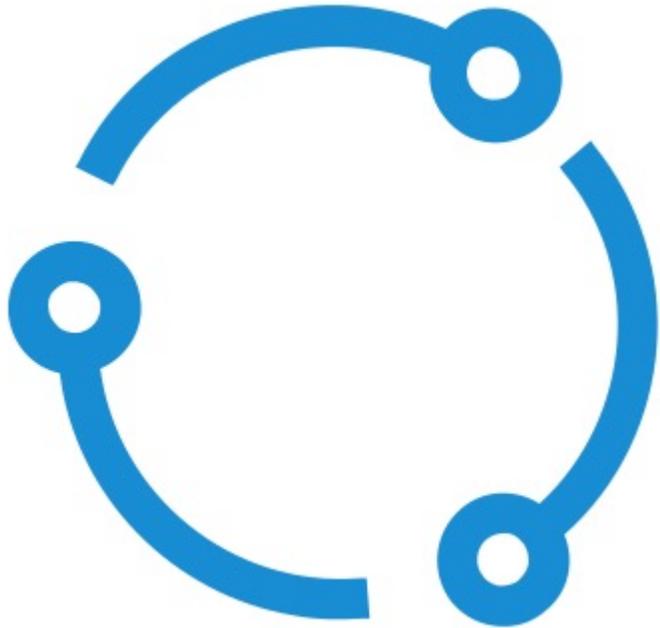
to automate complex and customer-specific development scenarios

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. On the left, a navigation pane shows the 'SAP Integration Suite Artifacts' section. The main content area is titled 'SAP Integration Suite Artifacts' and provides instructions on how to configure a CI/CD pipeline. Below the instructions, there is a table listing the pipeline configuration:

Name	State	Branch
MyFirstInteg...	ON	main

The right side of the interface shows the 'MyFirstIntegrationFlow' pipeline configuration. It includes a 'Builds' section with a table of build results:

Build	State	Duration	Timestamp
#1	Success	2 min 37	Aug 26, 2021, 10:47:35 AM

Below the build results, the 'GENERAL INFORMATION' section shows the following details:

- Repository: MyFirstIntegrationFlow
- Branch: main
- Pipeline: SAP Integration Suite Artifacts
- Version: 1.0
- State: ON

The 'BUILD RETENTION' section indicates that logs are kept for 7 days and a maximum of 50 build items are retained. On the far right, the 'Build #1 Stages' section shows a list of stages with their respective states and timestamps:

Stage	State	Duration	Timestamp
Init	SUCCESS	10 sec	Aug 26, 2021, 10:48:07 AM
Upload	SUCCESS	13 sec	Aug 26, 2021, 10:48:18 AM
Deploy	SUCCESS	1 min 31	Aug 26, 2021, 10:48:32 AM
Integration Test	SKIPPED	175 ms	Aug 26, 2021, 10:50:04 AM
Integration Flow Result	SUCCESS	5 sec	Aug 26, 2021, 10:50:04 AM

[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 SAP CI/CD. The 'Stages' tab is active, displaying various configuration options for different stages of the pipeline. The 'Build' stage is currently selected and has a toggle switch turned 'ON'. The 'Build Tool' is set to 'mta'. Other options include 'Maven Static Code Checks', 'Lint Check', 'Additional Unit Tests', 'Acceptance Stage', 'Deploy to Cloud Foundry Test Space', 'UIVeri5 Test', 'Release', 'Deploy to Cloud Foundry Production Space', and 'Upload to Cloud Transport Management'. Each option has a corresponding toggle switch and input fields for configuration.

The screenshot shows the configuration page for a job named 'my-cap-app'. The 'Stages' tab is active, displaying configuration options for the 'Build' and 'Release' stages. The 'Build' stage is selected and has a toggle switch turned 'ON'. The 'Build Tool' is set to 'npm'. Other options include 'Lint Check', 'Additional Unit Tests', and 'Release'. The 'Release' stage has a toggle switch turned 'OFF'. The 'Deploy to Cloud Foundry' option is also turned 'OFF'. The 'Application' field is empty. There are 'Save' and 'Discard' buttons at the bottom.

This is a close-up of the 'Build Tool' dropdown menu. The menu is open, showing three options: 'maven', 'mta', and 'npm'. The 'npm' option is currently selected and highlighted in blue. The 'Build' stage toggle is visible in the background, turned 'ON'.

[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

The screenshot shows the 'Add Repository' configuration page. The 'General Information' tab is active, and the 'Webhook Event Receiver' section is expanded. The 'Type' dropdown menu is open, showing 'Bitbucket Server' and 'GitLab' as options. The 'Webhook Credential' dropdown is also open, showing 'GitHub' as the selected option. The 'Remove' button is visible in the top right corner of the 'Webhook Event Receiver' section.

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:

*Org Name:

*Space:

*Credentials:

UIVeri5 Test ON

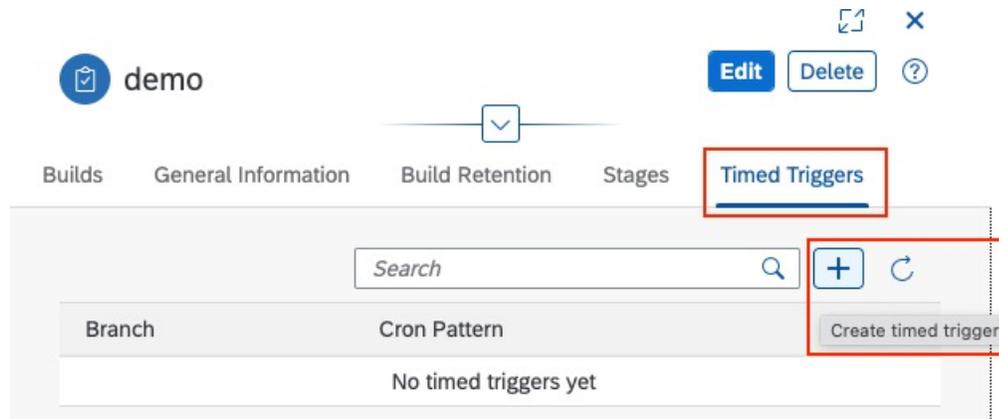
*Configuration Path:

*Base URL:

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 ⓘ [YML](#)

General Parameters

Flow ID: MyFirstIntegrationFlow

Design Time Authentication: piapikey

Upload

Flow Name: MyFirstIntegrationFlow

Package ID:

Deploy

Configuration (config.yml) ⓘ

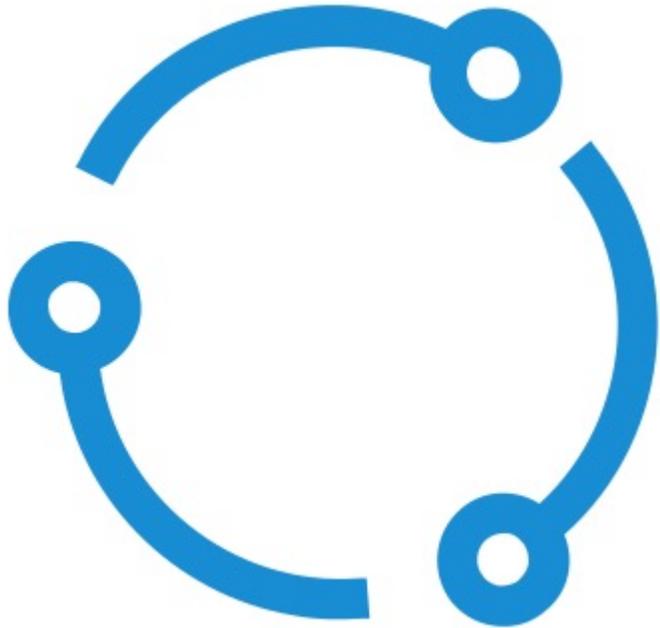
To use infrastructure as code process, copy the content to the `.pipeline/config.yml` file in your repository and set configuration mode to 'Source Repository'. ✕

```
---
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

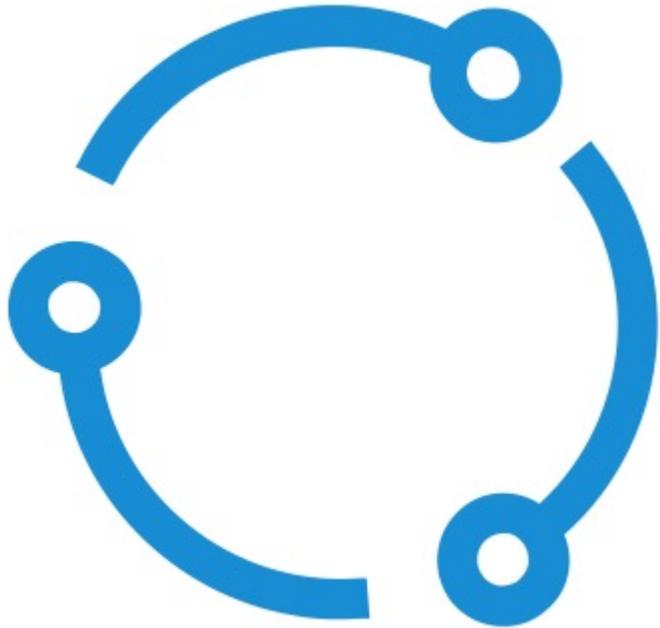


- Support further extension scenarios
- Support SAP BTP, Kyma environment
- Working on productivity features
- Additional data centers coverage

[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



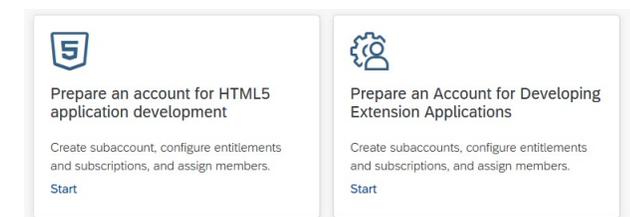
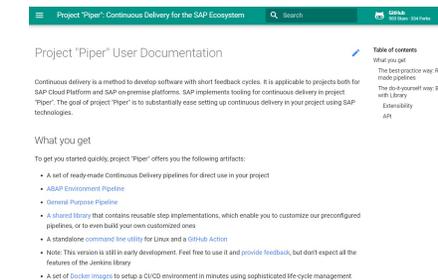
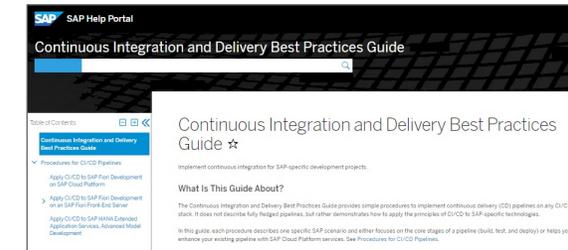
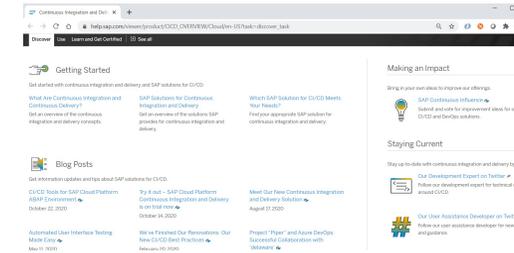
Learn more about DevOps with SAP:

- [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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