

IN180 - Leveraging Commands from “Piper” for CI/CD Setup with SAP Integration Suite

Public

Agenda

- Why is CI/CD important for SAP Integration Suite?
- APIs of SAP Integration Suite
- Project Piper
- Introduction to SAP continuous integration and Delivery Service
- How you can contribute to Project Piper

Why is CI/CD important for SAP Integration Suite?

Integration content developers want to

- keep track of what was changed
- keep multiple versions of their integration content
- use external tools for development of scripts, schemas, ...
- do proper testing before transporting or after software updates etc.

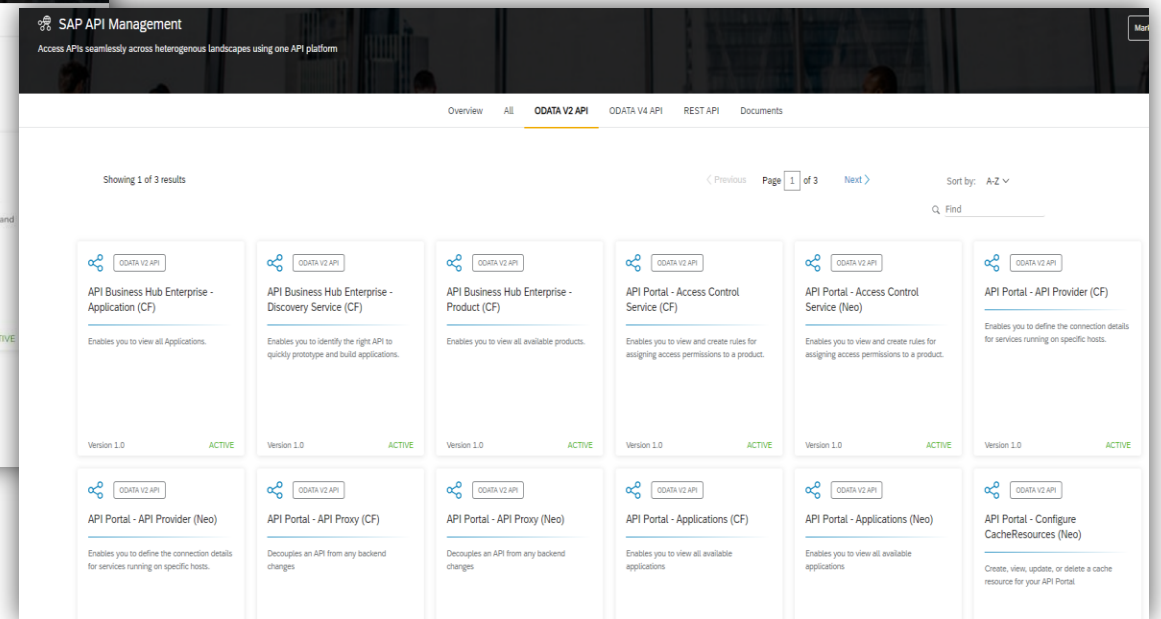
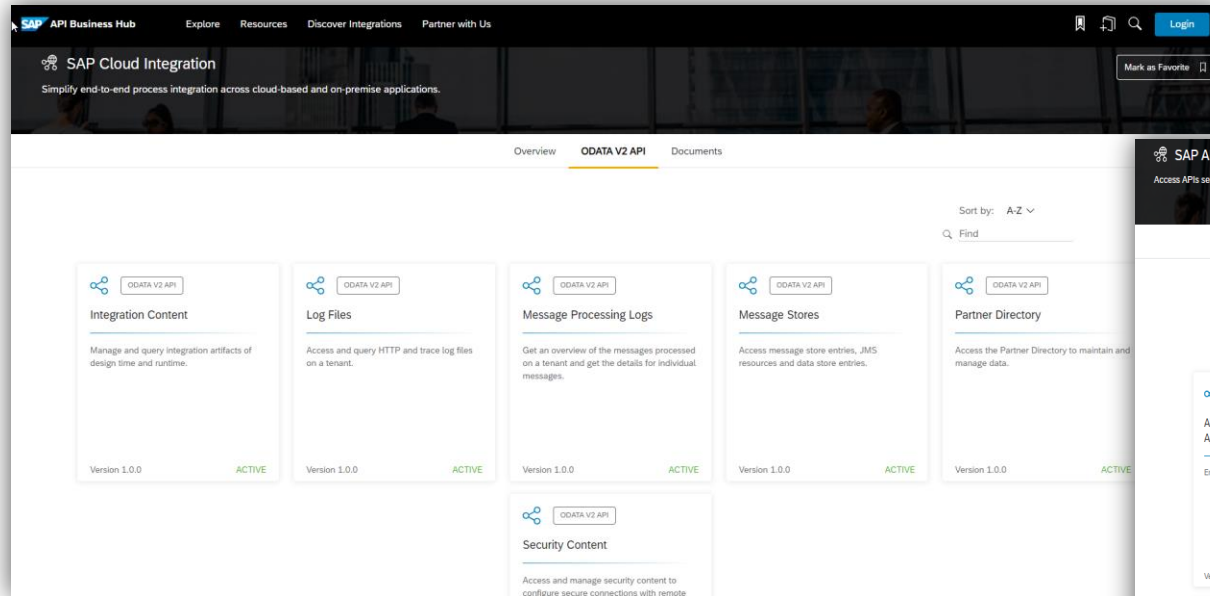
Ideally, all these steps are automated to save work and effort.

CI/CD helps automating build and test processes to make sure the integration scenario is in a good state.

CI/CD enables you to obtain immediate feedback on your changes to safeguard your business.

APIs of SAP Integration Suite

The foundation of CI/CD for SAP Integration Suite are APIs of the capabilities on the [SAP API Business Hub](#).



Project Piper

SAP provides tooling for CI/CD via project [Piper](#) for an easier automation of your processes.

For API Management & Cloud Integration from SAP Integration Suite you can find many piper steps, using the technical OData API calls under the hood.

The screenshot shows the Project Piper User Documentation website. The header is green with the Project Piper logo and navigation links. The main content area is white and features a sidebar on the left with a list of topics. The main text area contains a section titled "Project 'Piper' User Documentation" with a description of continuous delivery and a list of artifacts. A "Table of contents" is also visible on the right side of the main text area.

Project "Piper": Continuous Delivery for the SAP Ecosystem

Project "Piper" User Documentation

Continuous delivery is a method to develop software with short feedback cycles. It is applicable to projects both for SAP BTP and SAP on-premise platforms. SAP implements tooling for continuous delivery in project "Piper". The goal of project "Piper" is to substantially ease setting up continuous delivery in your project using SAP technologies.

What you get

To get you started quickly, project "Piper" offers you the following artifacts:

- A set of ready-made Continuous Delivery pipelines for direct use in your project
- [ABAP Environment Pipeline](#)
- [General Purpose Pipeline](#)
- A [shared library](#) that contains reusable step implementations, which enable you to customize our preconfigured pipelines, or to even build your own customized ones
- A standalone [command line utility](#) for Linux and a [GitHub Action](#)
- Note: This version is still in early development. Feel free to use it and [provide feedback](#), but don't expect all the features of the Jenkins library
- A set of [Docker images](#) to setup a CI/CD environment in minutes using sophisticated life-

The screenshot shows the Project Piper documentation page for the integrationArtifactDeploy step. The header is green with the Project Piper logo and navigation links. The main content area is white and features a sidebar on the left with a list of topics. The main text area contains a section titled "integrationArtifactDeploy" with a description of the step and a list of parameters. A "Table of contents" is also visible on the right side of the main text area.

Project "Piper": Continuous Delivery for the SAP Ecosystem

integrationArtifactDeploy

Deploy a CPI integration flow

Description

With this step you can deploy a integration flow artifact in to SAP Cloud Platform integration runtime using OData API. Learn more about the SAP Cloud Integration remote API for deploying an integration artifact [here](#)

Usage

We recommend to define values of [step parameters](#) via [.pipeline/config.yml file](#). In this case, calling the step is essentially reduced to defining the step name. Calling the step can be done either in an orchestrator specific way (e.g. via a Jenkins library step) or on the command line.

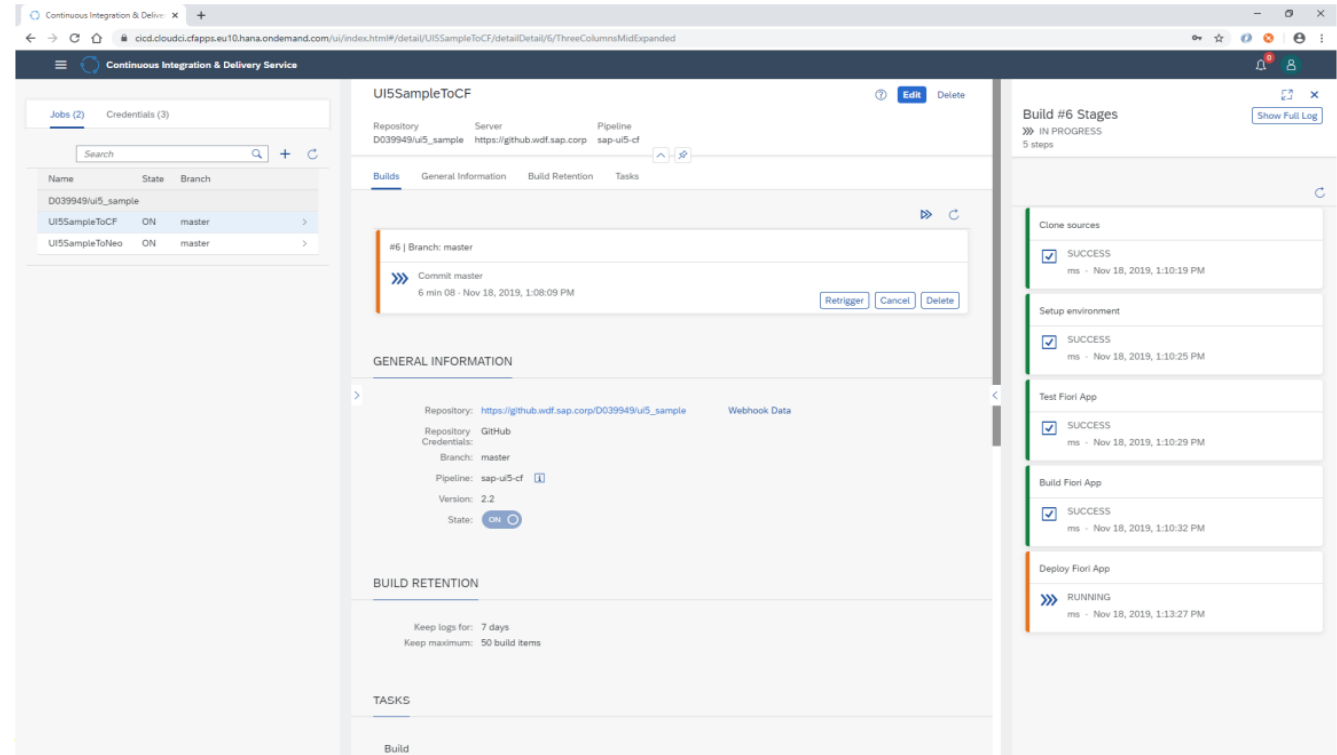
Jenkins Command Line

```
library('piper-lib-os')  
  
integrationArtifactDeploy script: this
```

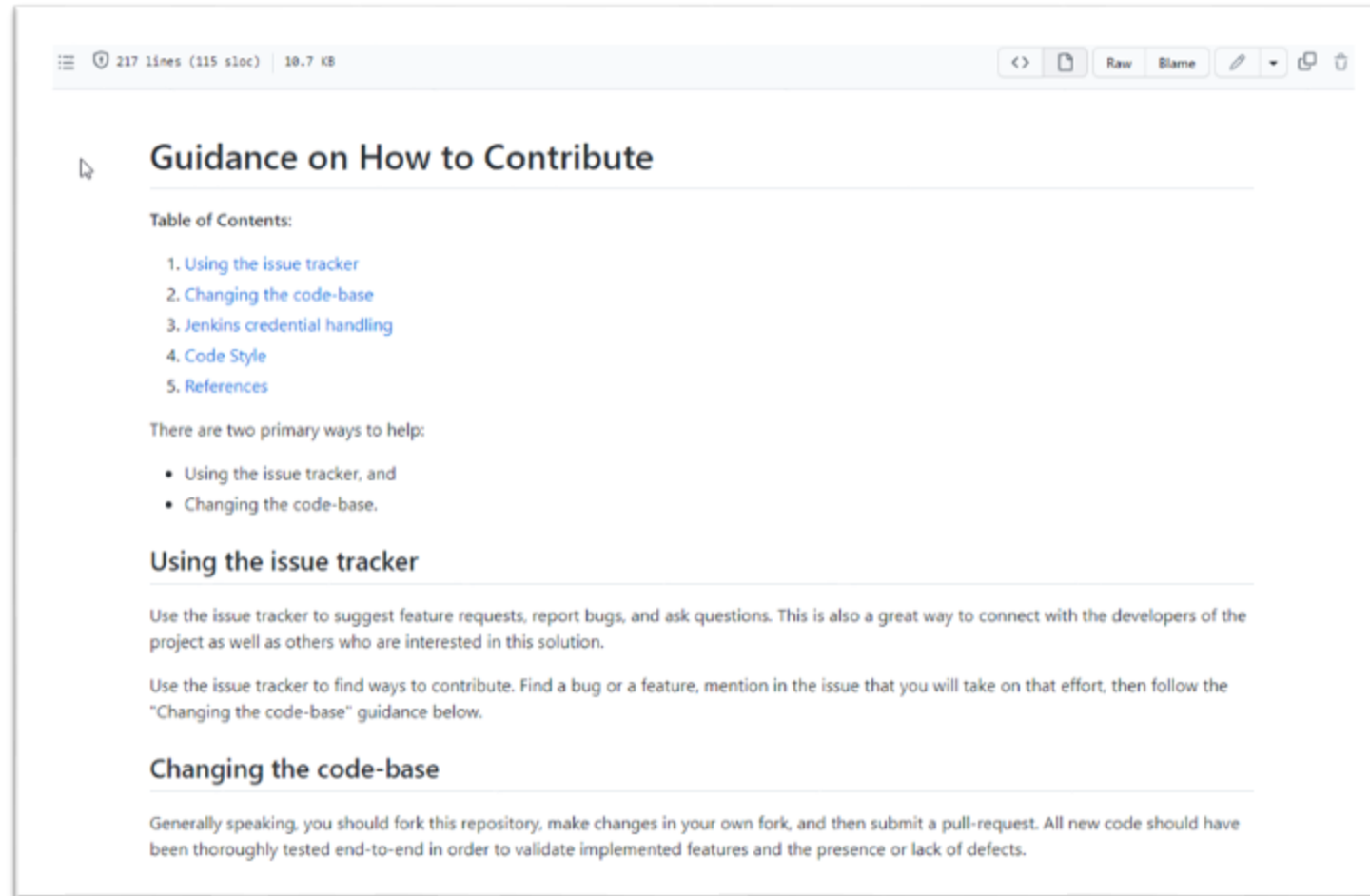
Introduction to SAP continuous integration and Delivery Service

[SAP Continuous Integration and Delivery](#) on SAP BTP

- lets you configure and run pre-defined CI/CD pipelines that build, test, and deploy your code changes
- Offers pipelines for SAP Cloud Application Programming Model, SAP Fiori, SAP Cloud Integration and container-based applications projects
- Enables you to monitor the status of your continuous integration and delivery builds and view their detailed logs



How you can contribute to Project Piper



<https://github.com/SAP/jenkins-library/blob/master/.github/CONTRIBUTING.md>

Summary

- OData APIs of SAP Integration Suite capabilities on [SAP API Business Hub](#)
 - API Management
 - Cloud Integration
- Construction kit for CI/CD on Integration Recipes portal
 - Pre built [CI/CD Jenkins projects](#) using the OData APIs
- Project "[Piper](#)"
 - SAP Integration Suite has contributed many steps to the library for project "Piper" that help you create your own continuous integration (CI) and continuous deployment (CD) pipeline, automating various tasks.
- [SAP Continuous Integration and Delivery](#) on SAP BTP,
 - Low-Code/No-Code solution to run predefined CI/CD pipelines for SAP Cloud Application Programming Model, SAP Fiori, Cloud Integration and container-based applications projects.

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1. [Pearson VUE's Latest "Value of IT Certification" Study Highlights Benefits of IT Certification in Challenging Times.](#) Pearson Education Inc., May 25, 2021.

2. Chuck Cooper, [Why Get IT Certified? The Value of IT Certification: An IT Certification White Paper](#), IT Certification Council, March 2021.

Thank you.

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