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# build your app

## Send IoT data to the IOTA Tangle with SAP HANA



Learn how to send IoT data to the IOTA Tangle with SAP HANA and display it in real time in SAP Analytics Cloud with this [blog](#). IOTA is an open source distributed ledger called Tangle developed for IoT or Machine to Machine economy. In the blog, you'll create a simple scenario to send IoT temperature data to the IOTA Tangle using Masked Authentication Messaging. To get started with SAP HANA XSA and connect to Web IDE, follow this [tutorial](#).

## We want to hear from you

We would like your feedback regarding topics and content that you would like us to include in this newsletter so we can continue to deliver relevant content to you. Thank you!

[Take the survey now](#)

## How to get rid of repetitive DevOps tasks with SAP Cloud Platform Automation Pilot



Learn about the new SAP Cloud Platform Automation Pilot service for executing and automating DevOps tasks in both, Neo and Cloud Foundry environments. It provides catalogues of predefined commands so you don't need to code simple tasks and allows you to introduce your own commands without coding. Read this [blog](#) for more insights. Click [here](#) to sign up for your free SAP Cloud Platform trial.

## Visit the SAP Developer Center

Check out the latest step by step tutorials, download the most updated tools and SDKs, and sign up for free developer editions.

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## Proof of concept: Deploying ABAP in Kubernetes



Check out this [blog](#) and learn about a Proof of Concept where SAP developers containerized SAP ABAP application server components and deployed them onto various Kubernetes environments. The goal was to create a generic ABAP Kubernetes deployment that could be integrated into any Kubernetes environment (on premise, self-managed Kubernetes-based product such as CaasP or OpenShift, or a Kubernetes as a service offering in the public cloud like GKE). The blog also points out some potential benefits and challenges learned from this exercise. To learn more about ABAP, click [here](#).

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## How to integrate a React app into the SAP Fiori Launchpad



In this blog, SAP Developer Advocate [Marius Obert](#) demonstrates how web apps, written in any UI framework, can be integrated into the SAP Fiori Launchpad on Cloud Foundry. For this demonstration, Marius uses a React app as an example as it also allowed him to leverage [UI5 web components](#). To sign up for your free SAP Cloud Platform, Cloud Foundry environment trial, click [here](#).

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## Newcastle University's Journey to SAP S/4HANA

Take a look at this short [blog series](#) by Newcastle University for insights into their journey to SAP S/4HANA. The series is divided into three parts: the first one covering the project scope, the second one the business case and motivations for the implementation, and the third one the approach taken to deliver the project. The posts provide useful insights and interesting items to keep in mind if you are getting ready or are already on your way to implement SAP S/4HANA.

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## New step by step tutorials and how-to guides

Explore our new tutorials available on the [SAP Developer Center](#):

- [Use Machine Learning to extract information from files](#): Use [Document Information Extraction](#) (a service of [SAP AI Business Services](#) in SAP Cloud Platform) to process a document in PDF format that has content in headers and tables.
- [Enhance your first MDK app with additional functionalities](#): Increase your understanding of the mobile development kit, learn how to create, delete a record, how to display the data from the related entity, and how to upload client logs to mobile services.
- [Implement an image classification app for identifying product categories](#): Use the SAP Cloud Platform SDK for iOS to build an Image Classification app. Learn how to use Create ML to train an Image Classification model and implement the categorization with help of Apple's Vision framework.
- [Create Calculation Views with SAP HANA XS Advanced](#): Model calculation views with XS Advanced and implement basic data privacy.

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## Upcoming events

- Mar 1 – [SAP Stammtisch Chennai](#)
- Mar 3 – [SAP CodeJam Middelfart](#) (ABAP for SAP HANA Fundamentals)
- Mar 5 – [SAP Stammtisch Vienna](#)
- Mar 8 – [SAP Stammtisch Kolkata](#)
- Mar 12 – [SAP CodeJam Stuttgart](#) (ABAP for SAP HANA Fundamentals)
- Mar 13 – [SAP CodeJam Burbank](#) (SAP S/4HANA with SAP Cloud SDK)
- Mar 13 – [SAP CodeJam Munich](#) (ABAP RESTful Programming Model)
- Mar 17 – [SAP Stammtisch Stuttgart](#)
- Mar 18 – [SAP CodeJam Hannover](#) (SAP Cloud Application Programming Model)
- Mar 18 – [SAP Stammtisch Melbourne](#)
- Mar 20 – [SAP CodeJam Bucharest](#) (SAP Cloud Application Programming Model)
- Mar 20 – [SAP Inside Track Reading](#)
- Mar 21 – [SAP Inside Track Pune](#)
- Mar 24 – [SAP CodeJam Siegen](#) (SAP Cloud Platform, ABAP environment)
- Mar 26 – [SAP CodeJam Freiburg](#) (ABAP RESTful Programming Model)
- Mar 27 – [SAP Stammtisch Frankfurt](#)
- Mar 28 – [SAP Inside Track Frankfurt](#)
- Mar 31 – [SAP CodeJam Herzogenaurach](#) (SAP Data Hub)

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