



LT116 – Designing and Developing API-First Microservices

SAP Cloud Platform

PUBLIC

Speakers 2018



SAP TechEd Las Vegas
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SAP TechEd Barcelona
October 23–25, 2018

Sven Huberti

SAP TechEd Bangalore
November 28–30, 2018

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APIs are digital building blocks

Build



Mobility, Delightful **user experiences**, Self Service

Integrate



Omni channel access, Business collaboration (**B2B**, **B2G**) and open integrations

Engage



Partner & Developer engagement, New channels and revenue streams



Digital apps

Business Networks

Partners/Customers



Secure, managed and Open APIs
HTTP | REST | ODATA

API Management



Design



Security



Traffic Management



Mediation



Caching



Notification



Analytics



Developer Engagement



Monetize

API Development



API Design



API Implementation



Persistence



DevOps

SAP Cloud Platform
CLOUD FOUNDRY



SAP Apps, HANA, Middleware



SAP Cloud Platform



Heterogenous Backends



Digital apps



Business Networks



Partners/Customers

Marketplace for enterprise APIs

API Business Hub

WebIDE

Search, discover, test and subscribe to APIs

Developer Portal

Mobile Services

App Developers



Design

Develop

Manage

Meter and Monetize

Engage

API Designer

Design easy to use APIs

App Runtimes

Integration

Persistence

Messaging

On-premise middleware

Cloud Connector

API Portal

API Gateway

Secure, govern, document and publish APIs
Analyze and gain insights

Implement highly scalable APIs and microservices using platform services

API Team



SAP Apps, HANA, Middleware



SAP Cloud Platform



Heterogenous Backends

The 4 stages of an API implementation: Nutrients-as-a-Service

1 Planning and Initial Design



Design easy-to-consume APIs using an **Interface First** approach



2 Implementation and Testing



Implement highly scalable API or microservice using **SAP Cloud Platform** services



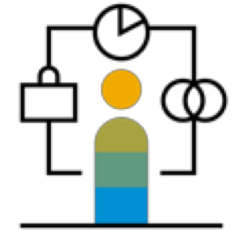
3 Deploying and Running



Manage, secure, and govern API access. Analyze and gain insights from API usage



4 Consuming the API



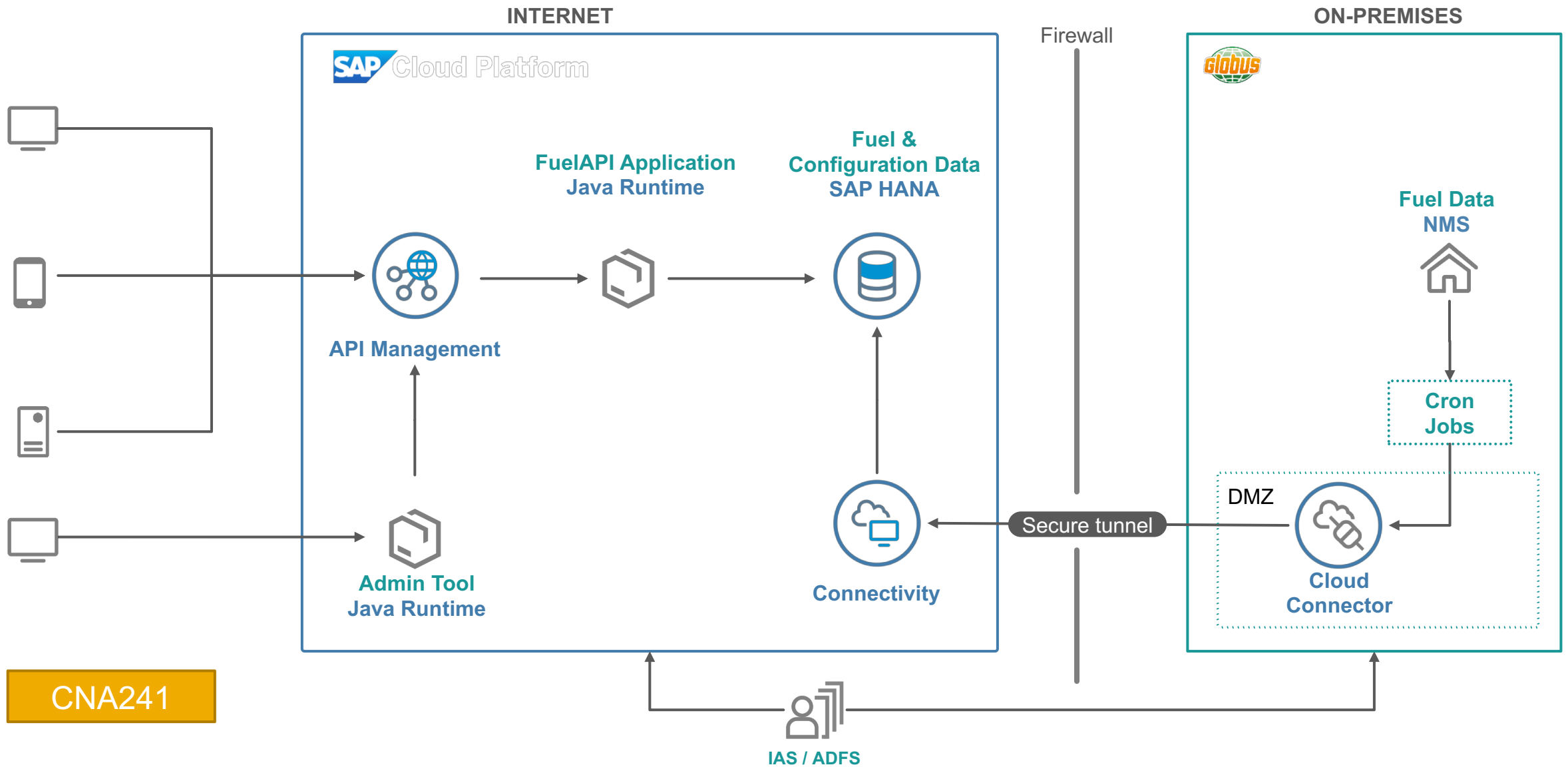
Foster collaboration and **co-innovation** between your business, partners, and developers



Demo



Real-life example: Globus Fuel API



CNA241

APIFication of SAP

Grow platform business and business networks with Cloud APIs



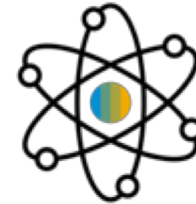
Global API Program

API Program reporting to board office, establishing lightweight governance



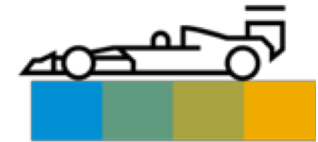
API Makers Community

Community to share best practices with API design, architecture and development



SAP API Business Hub

Public catalog of APIs and accelerators from SAP and partners

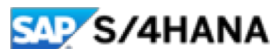


Pre-Packaged Accelerators

Pre-packaged best practices, policy templates and integration packages



Predictive Services



Localization APIs



SAP Banking API



Business Services



Machine Learning



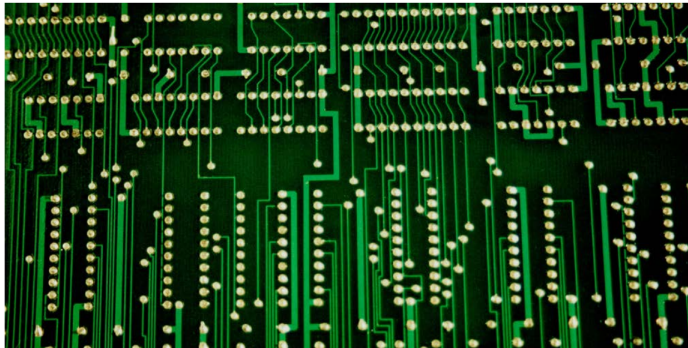
Internet Of Things



SAP's Guidelines for Future REST API Harmonization

A Reference Guide to Developing Harmonized REST
Application Programming Interfaces in the SAP® Ecosystem

October 2017



Best practices to design and develop Enterprise APIs by SAP

Download

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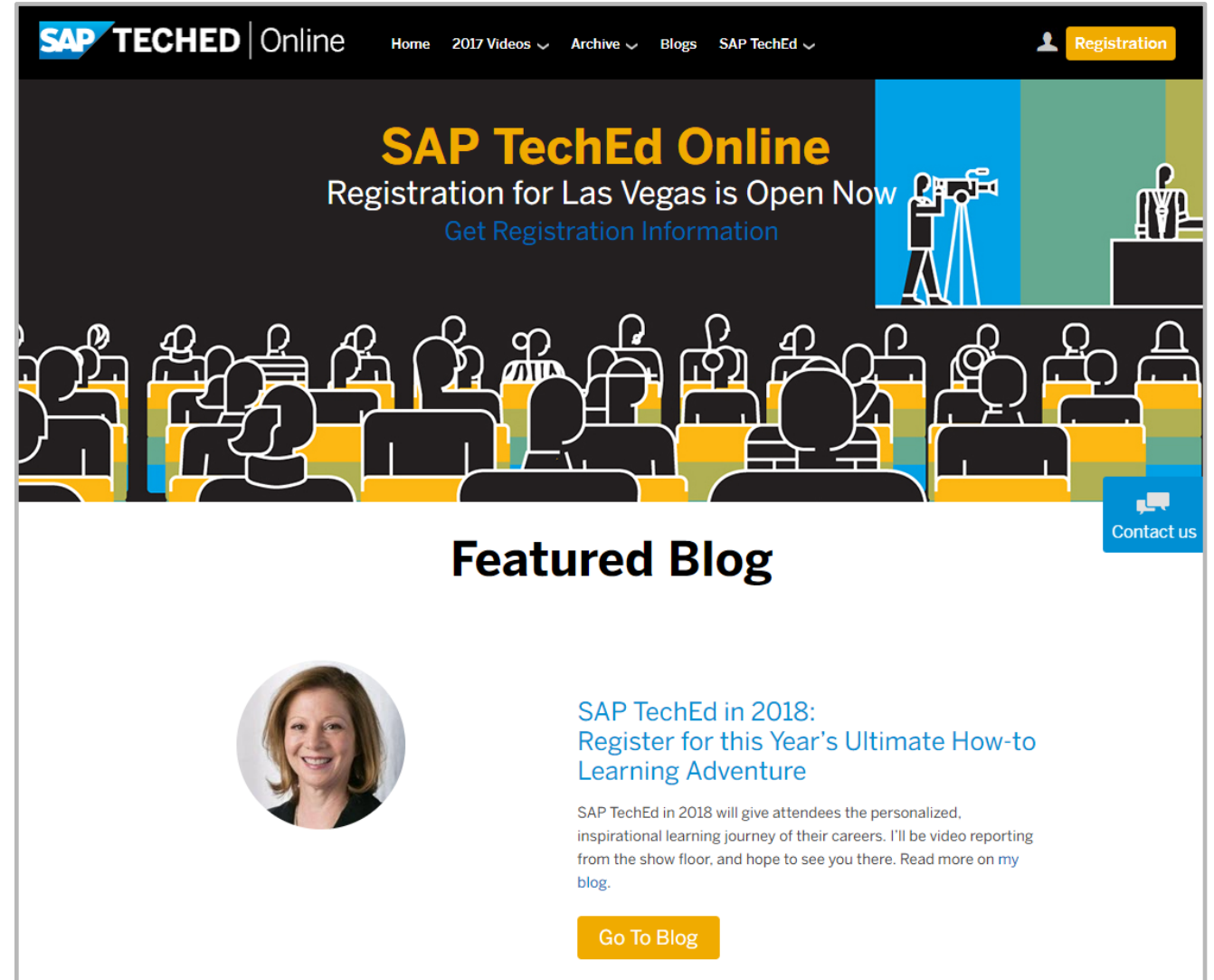
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Further information



Related SAP TechEd content journeys

CRO4a-How to Integrate Data and Processes End-to-End in a Hybrid Landscape
CRO4b-How to Master Integration Technologies

Related SAP TechEd sessions

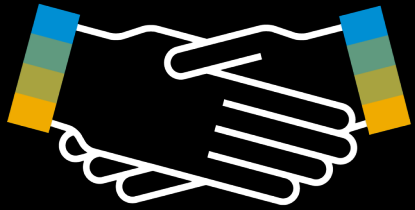
INT365 - Integrate SAP and Third-Party Data Sources Using SAP API Management
INT367 - Leverage SAP API Management in Integration-Centric Scenarios
INT101 - Our Integration Platform-as-a-Service Offering on SAP Cloud Platform
INT200 - SAP API Management: Customer Use Cases and Best Practices
INT642 - Adopt Scenario-Driven API Design and Monetize your API
CNA241 - How Globus Uses Cloud Solutions from SAP for Its API-First Strategy

Public SAP Web sites

SAP Community: www.sap.com/community
SAP products: www.sap.com/products

SAP training and certification opportunities

www.sap.com/education



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