LT116 – Designing and Developing API-First Microservices
SAP Cloud Platform

THE BEST RUN **SAP**

Speakers 2018

SAP TechEd Las Vegas
October 2–5, 2018

Harsh Jegadeesan

SAP TechEd Barcelona
October 23–25, 2018

Sven Huberti

SAP TechEd Bangalore
November 28–30, 2018

Vinayak Adkoli

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	App Runtimes	API Portal
	Integration	
Design easy to use APIs	Persistence	API Gateway
	Messaging	Secure, govern, document and publish APIs Analyze and gain insights
	On-premise middleware	
	Cloud Connector	Implement highly scalable APIs and microservices using platform services

API Team

SAP Hybris • SAP SuccessFactors • SAP Ariba

SAP Apps, HANA, Middleware

SAP Cloud Platform

ZOHO Work · Online • intuit QuickBooks • Marketo • salesforce • HubSpot • freshdesk • Magento

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

Design

2 Implementation and Testing

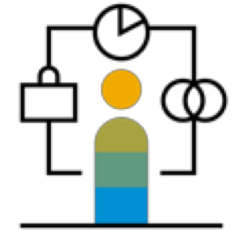Implement highly scalable API or microservice using **SAP Cloud Platform** services

Develop

3 Deploying and Running

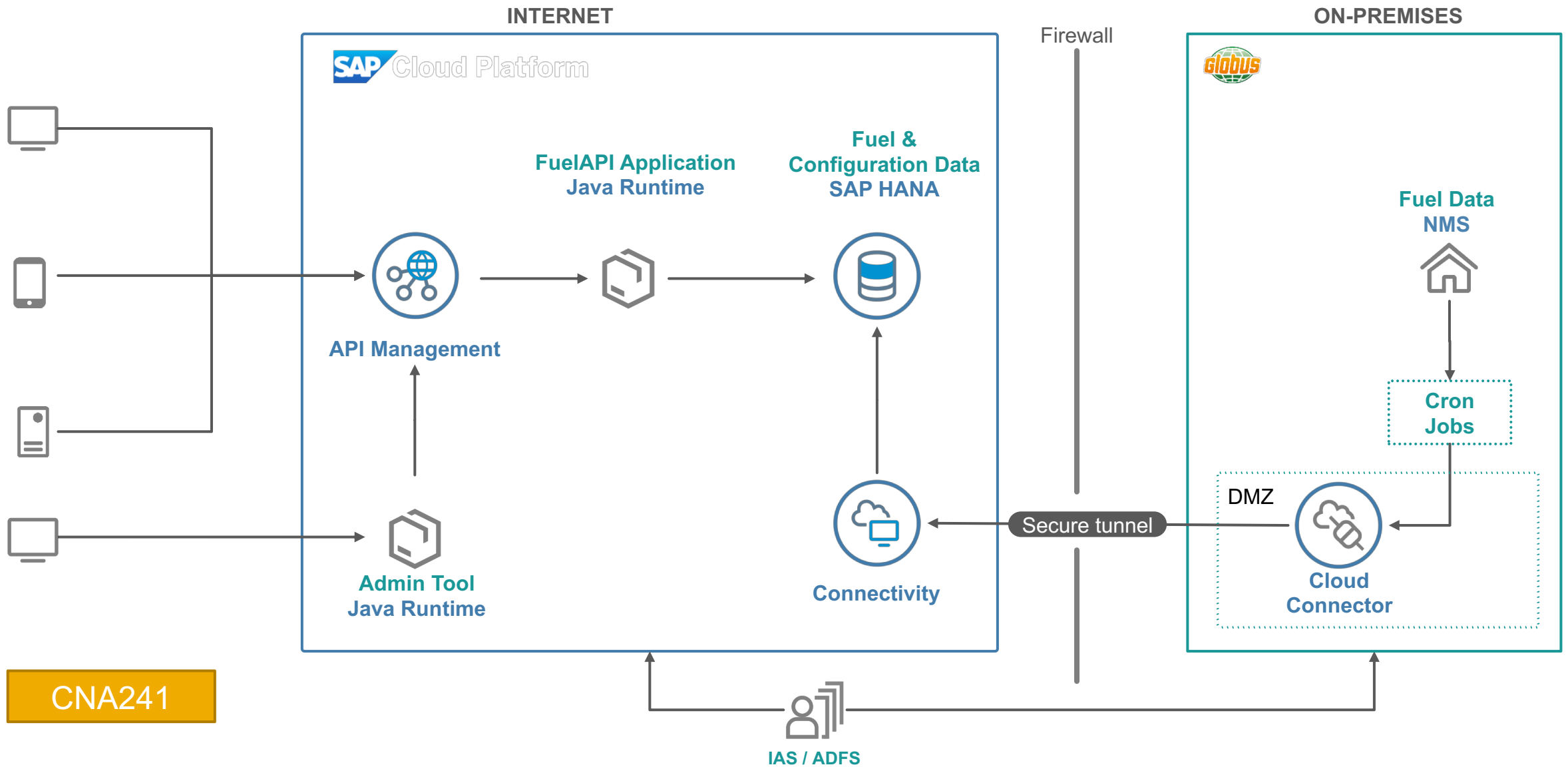**Manage**, secure, and govern API access. Analyze and gain insights from API usage

Manage

4 Consuming the API

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

Engage

Demo

Real-life example: Globus Fuel API

INTERNET

ON-PREMISES

SAP Cloud Platform

Firewall

GLOBUS

FuelAPI Application
Java Runtime

Fuel &
Configuration Data
SAP HANA

Fuel Data
NMS

API Management

Cron
Jobs

DMZ

Admin Tool
Java Runtime

Connectivity

Secure tunnel

Cloud
Connector

IAS / ADFS

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
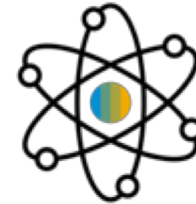
SAP
API Business Hub

Public catalog of APIs and accelerators from SAP and partners
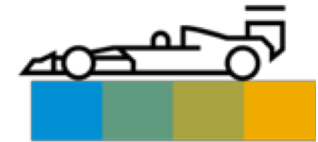
Pre-Packaged
Accelarators

Pre-packaged best practices, policy templates and integration packages

Predictive Services
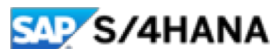
Localization APIs

SAP Banking API

Business Services

Machine Learning

Internet Of Things

SAP S/4HANA   SAP C/4 HANA   SAP SuccessFactors   SAP Concur   SAP Ariba   SAP Fieldglass

SAP's Guidelines for Future REST API Harmonization
A Reference Guide to Developing Harmonized REST Application Programming Interfaces in the SAP® Ecosystem

October 2017

SAP Run Simple
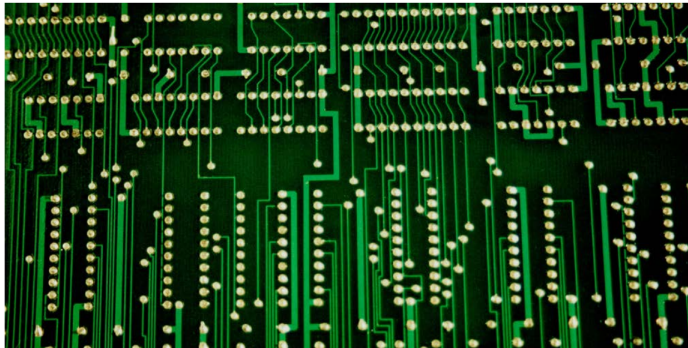
Best practices to design and develop Enterprise APIs by SAP

Download

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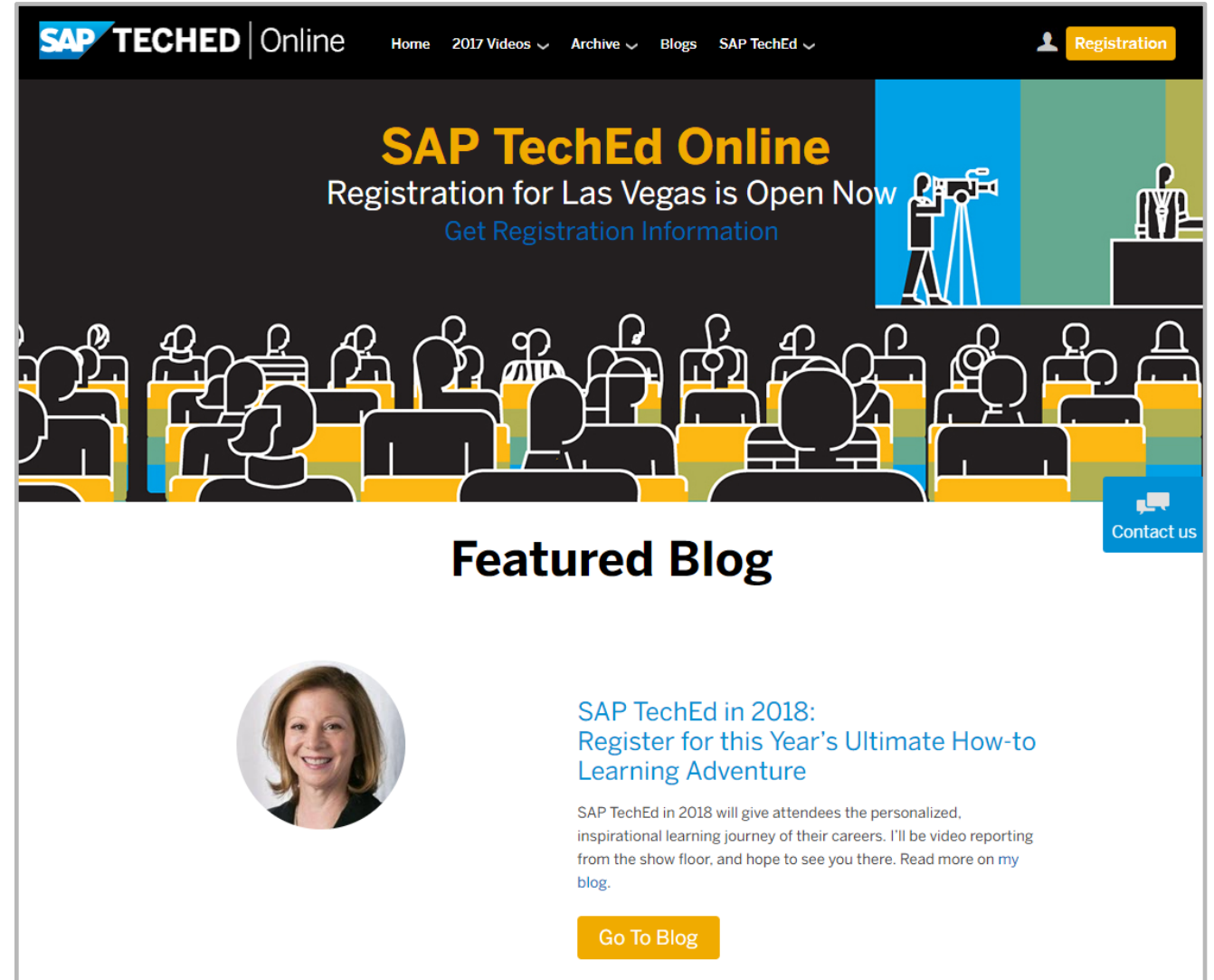
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CRO4b-How to Master Integration Technologies

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

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www.sap.com/education
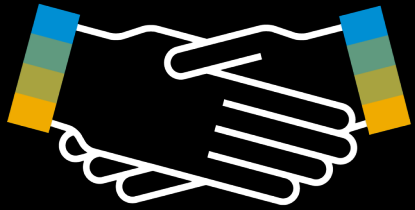
Thanks for attending this session.

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Contact for further topic inquiries

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