

DEV102 – SAP HANA Cloud Platform: A Guided Tour

Speakers

Las Vegas, Oct 19 - 23

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Barcelona, Nov 10 - 12

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Wants & needs

Easy to use apps

Easy to learn/master

Quick results
(shorter time to market)

Care free (no hassle)

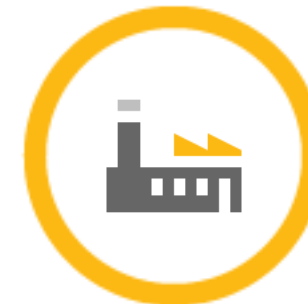
Lower operational
overhead

Lower capital expenses

On-demand

1st class tooling

Grow marketshare



Cloud basics



cloud

Software as a Service (SaaS)

Platform as a Service (PaaS)

Infrastructure as a Service (IaaS)



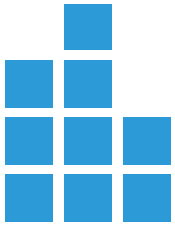
managed

Virtualization

Hosting

SAP HANA Cloud Platform

The Platform-as-a-Service for Powering Cloud Applications



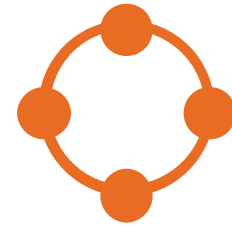
BUILD

New Cloud Apps



EXTEND

Business Apps



INTEGRATE

Everything

Use case: Build new cloud solutions

SAP HANA Cloud Platform is an innovation platform to build new applications based on SAP's in-memory technology.

Build all types of business applications

- Develop enterprise-grade applications the full feature set of SAP HANA
- Trust in SAP's secure and reliable data center infrastructure

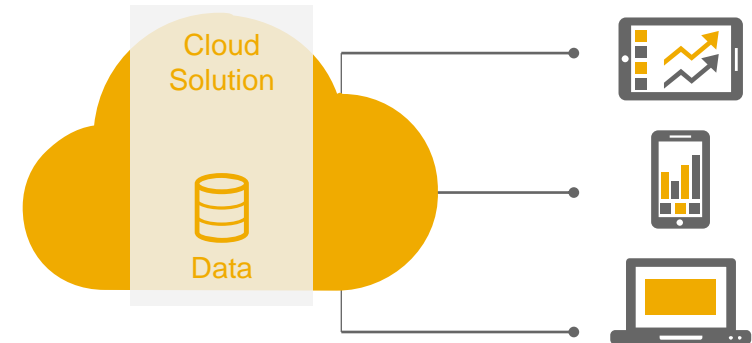
Advanced real-time analytics

- Leverage native SAP HANA and create graphics and visualizations
- Replicate data from on-premise systems to the cloud

Internet of things / M2M applications (planned functionality)

- Leverage built-in device management and security
- Process data streams
- Examples: remote service management, predictive maintenance, connected logistics

New Solution



Use case: Extend cloud solutions

SAP HANA Cloud Platform can be used to extend existing SAP cloud solutions and to integrate them with on-premise systems.

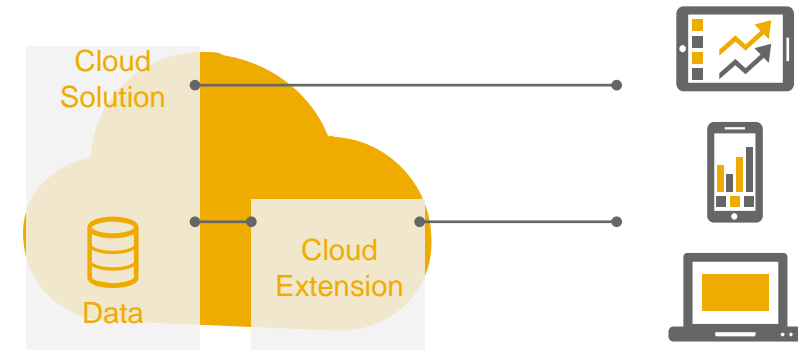
Extend cloud solutions

- Build customized business processes for SaaS
- Differentiate from competition by enabling unique business processes or industry-specific capabilities
- Seamless integration, where the extensions blends into the look & feel of the SaaS application
- Examples: SuccessFactors, SAP Cloud for Customer, Ariba (planned functionality)

Integrate cloud solutions with on-premise systems

- Use process and data integration capabilities
- Benefit from pre-packaged integration content for different SAP solutions

Cloud Extension



Usecase: Extend on-premise solutions

SAP HANA Cloud Platform can be used to extend existing SAP on-premise solutions, to enable mobile scenarios and as an outbound channel to reach consumers.

Extend SAP on-premise solutions

- Innovate while keeping your core SAP solutions stable
- Extend any on-premise solution (SAP and non-SAP)

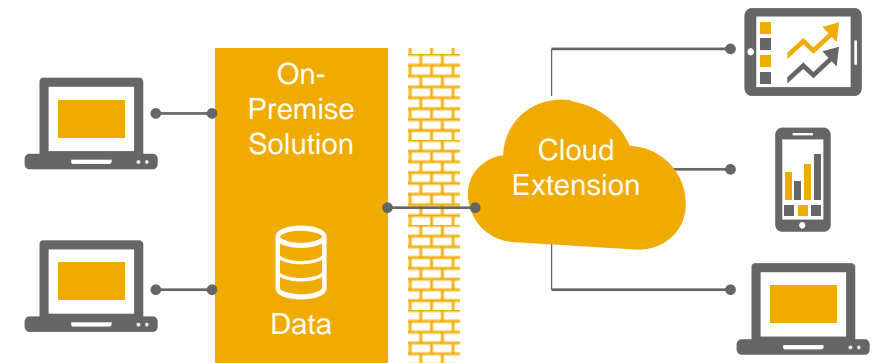
Enable mobile consumption

- Leverage mobile services
- Deploy SAP Fiori in the cloud

Extend reach towards consumers

- Build consumer-grade applications
- Run external portals surfacing multiple applications in a consistent experience

On-Premise Extension



Open standards && open-source

Communication

- Release notes
- SCN Dev. Center
- Twitter, Slideshare, ...
- Podcast

Code samples

- github.com/SAP



Information

- hcp.sap.com
- help.hana.ondemand.com

Tools && SDKs

- tools.hana.ondemand.com
- Maven Central

Education

- open.sap.com
- HANA Academy (YouTube)

Everything You Need to Build Enterprise Apps in the Cloud



Integration



User Experience



Analytics



Dev & Ops



Collaboration



Security



Business



Storage



Mobile



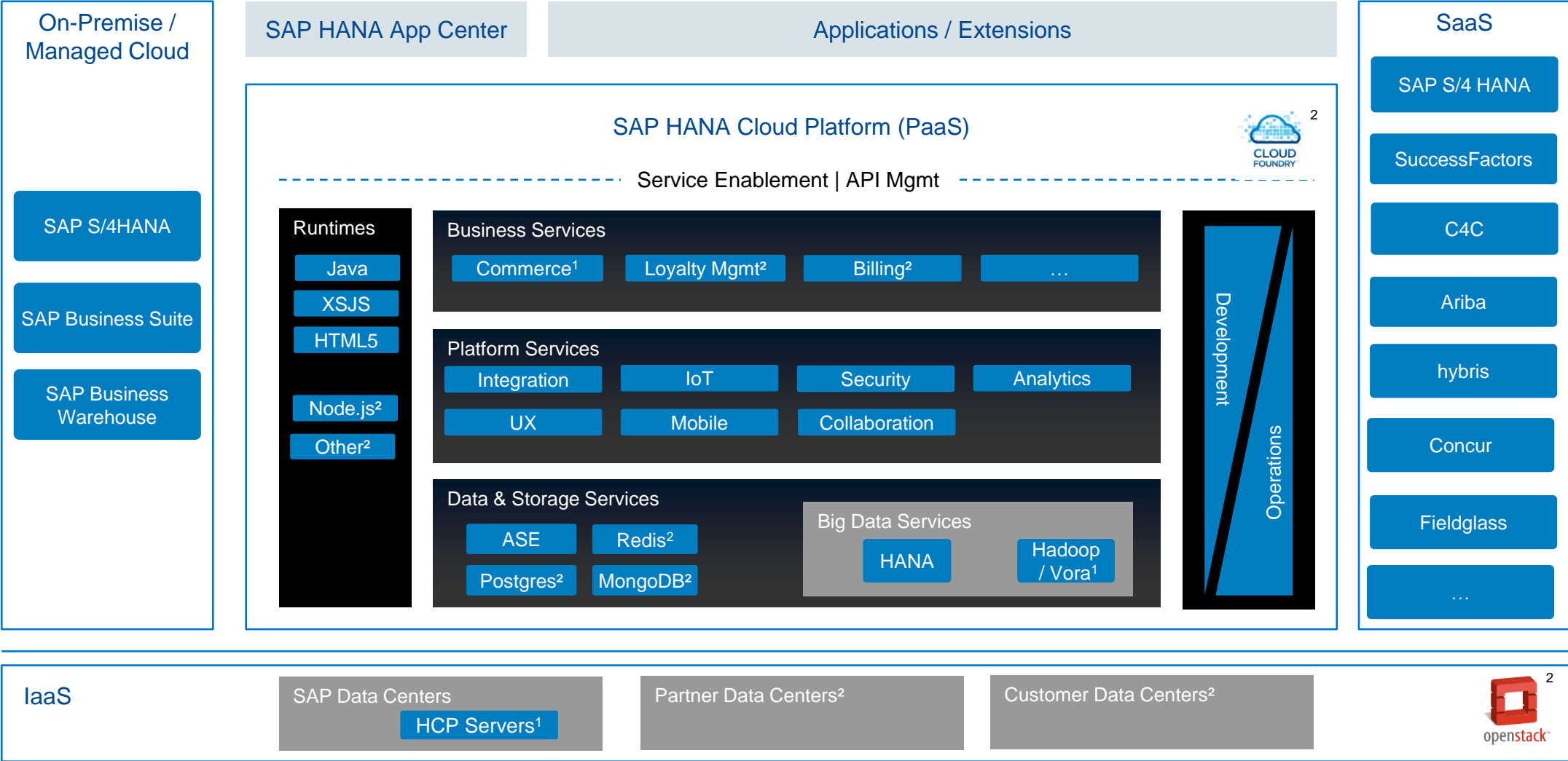
Internet of Things



More details:
hcp.sap.com

SAP HANA Cloud Platform – Architecture

Current && Planned Innovations



1) beta functionality, 2) planned innovations / future direction

Runtimes/Programming models Overview



Java

- Develop, deploy and use Java applications in a cloud environment
- Java SE 6/7 and Java EE 6 Web Profile certified
- E.g. complex integration projects



XSJS

- Develop and scale XSJS applications in a cloud environment
- Reduce the footprint of the solution by not having a separate application server in the solution
- E.g. data-centric analytical apps and dashboards



HTML5

- Develop and run lightweight HTML5/SAPUI5 applications in a cloud environment
- Benefit from SAPUI5 code templates and SAP best practices to rapidly build applications
- E.g. mash-up connections to existing data sources or backend systems

Other Runtimes*

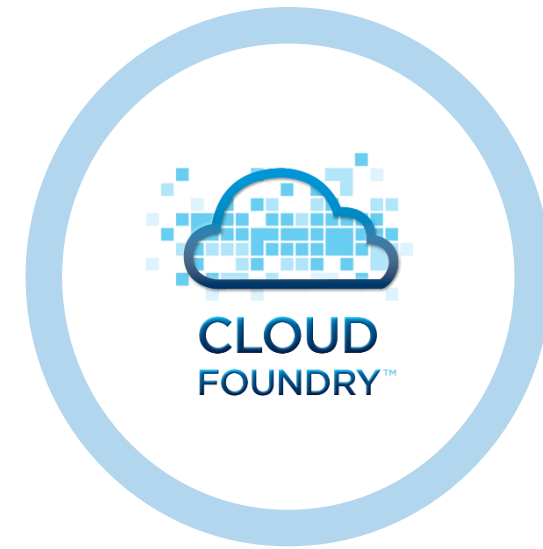
By leveraging Cloud Foundry, we plan to support additional runtimes (i.e. programming languages and frameworks) in SAP HANA Cloud Platform.

Key capabilities

- Leveraging Cloud Foundry enables developers to choose from various programming languages and frameworks
- SAP supported buildpacks based on Cloud Foundry system buildpacks (Java, Node.js)
- Bring your own language (BYOL) with the support for custom buildpacks (e.g. PHP, Python, Ruby, Go)

Benefits

- Full SAP support for the SAP supported languages and community support for all others
- Achieve more with your language of choice through BYOL



**Develop with other
runtimes**

* planned innovations / future direction

HCP Servers (beta)*

In the future SAP HANA Cloud Platform will support additional runtimes (via Cloud Foundry) and so-called generic compute units*. This blurries the line between PaaS and IaaS.

Key capabilities

- Install arbitrary software side by side with the runtimes and platform services
- Full control over virtualized hardware resources (compute power, memory, storage)
- Full operating system (Linux) access (connection via SSH)

Benefits

- Can be exposed to the internet (via DMZ)
- Can be accessed by Java Compute Units and from SAP HANA



* naming to be finalized

Certified SAP Data Centers

- SAP managed datacenters & selected partners operating according to SAP standards
 - Certified operations
 - World-class data centers
 - Advanced network security
 - Reliable data backup
 - Built-in compliance, integrity, and confidentiality
- Additional SAP HANA Cloud Platform presence in preparation
- Customer can choose in which datacenter applications run and data is stored



- SAP HANA Cloud Platform presence
- Planned SAP HANA Cloud Platform presence
- SAP Data Center

For more details, see www.sapdatacenter.com

Certified SAP Datacenters

SAP HANA Cloud Platform runs only in secure and certified environments

- Certified operations
- World-class data centers
- Advanced network security
- Reliable data backup
- Built-in compliance, integrity, and confidentiality

IT Operations

ISO 27001
COMPLIANT

Quality Management

ISO 9001
CERTIFIED¹

High Availability

BS25999
CERTIFIED¹

Energy Efficiency

GREEN IT
CERTIFIED¹

International Account
Regulations

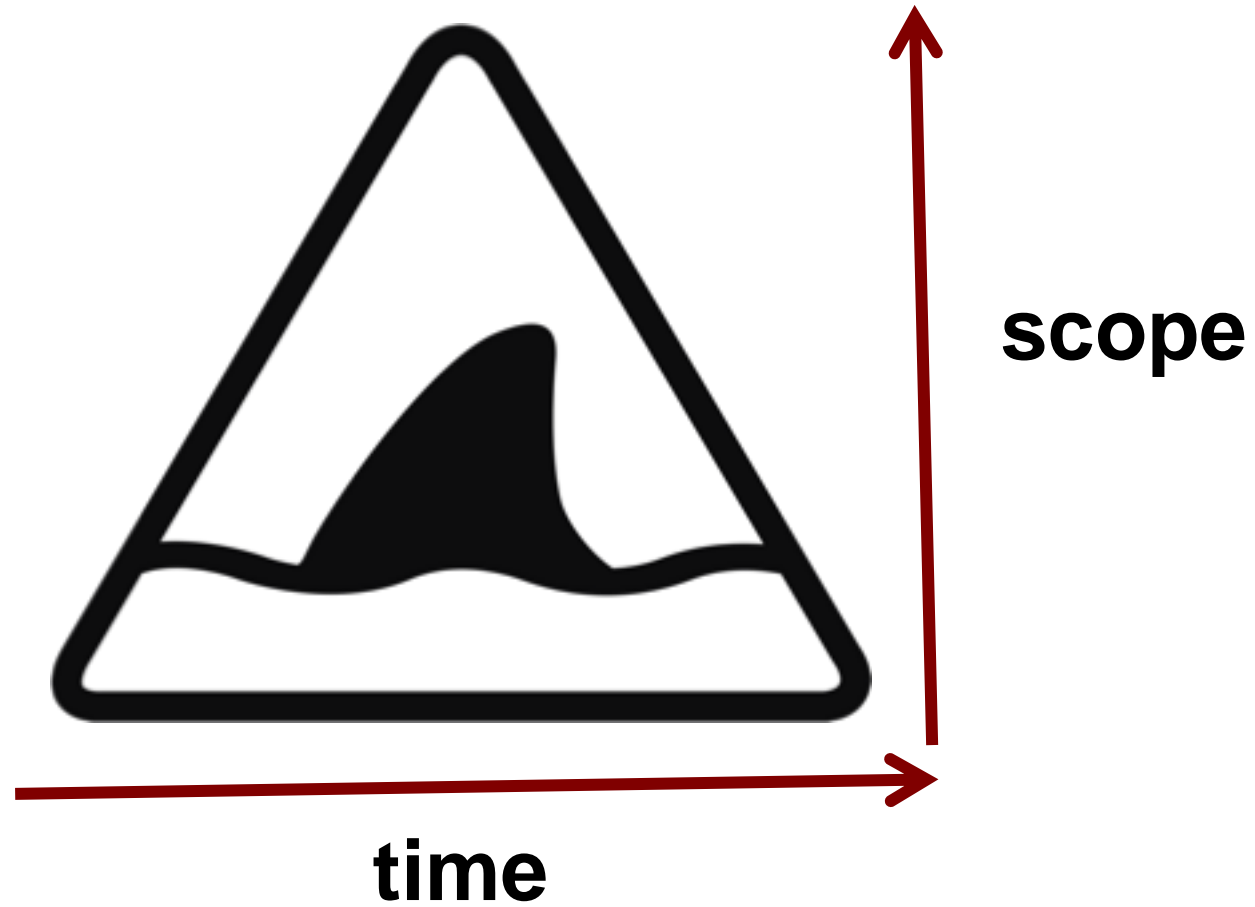
ISAE3402
TESTIFIED²

SSAE16
TESTIFIED

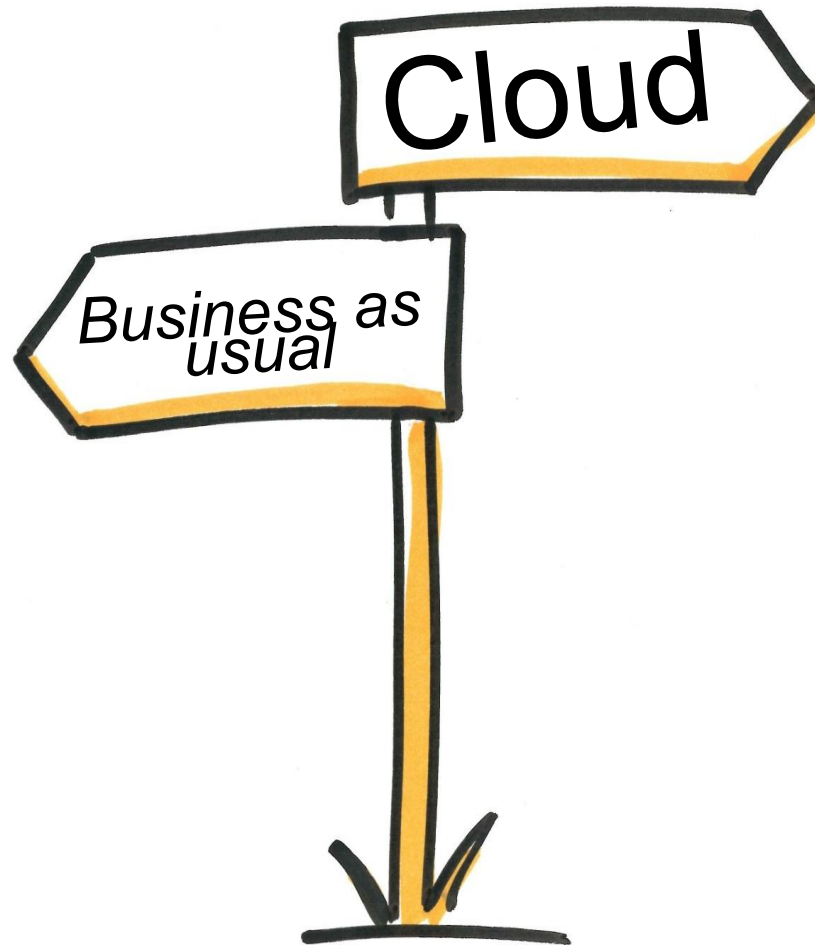
1: certification for Germany-based SAP data center hosting SAP HANA Cloud Platform

2: formerly SAS 70 Type II

How-to get started?



New rules!



SAP HANA Cloud Platform Customer References



Optimized logistic to reduce traffic and increase container turnover

2x increase in cargo capacity; 5+ minute saved by each of the thousands track entering the port

Seamless integration of traffic data, carrier data and telematics



Reconciliation of inconsistent human capital management (HCM) data

Faster time to value and lower TCO with enhanced compliance and error reduction

Seamless integration with on-premise systems and SuccessFactors



Empowers employees to quickly identify tribal knowledge and expertise within their workforce

From an idea to a fully feature application able to serve users globally, in 1 year

Securely leverage multiple data sources enhanced intelligence and easy integration with any application



Robust, easy-to-use e-commerce sites for selling Jaguar Land Rover merchandise

Out-of-the-box integration into core JLR systems, including SAP ERP, CRM and BI

Responsive design across smart phone, tablet and desktop devices



Assure accuracy and confidence of HCM data to make talent-driven business decisions in time of transition

“HR can now take command of its own data, and do it in a very aggressive manner without relying on IT and IT reports and IT associates to have to do things upon demand.”



User friendly mobile congress app to support 1500+ attendees at the annual VNSG congress

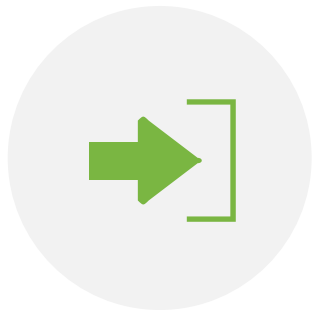
Easily accessible data for real time event information and analysis

Single application for multiple platforms - Android, iOS, web

Questions && answers



Get Started with SAP HANA Cloud Platform



Find out more about
HANA Cloud Platform:
hcp.sap.com



Start using SAP
HANA Cloud Platform
Developer Edition:
hcp.sap.com/developers



Try a partner application
powered by SAP HANA:
www.sapappcenter.com

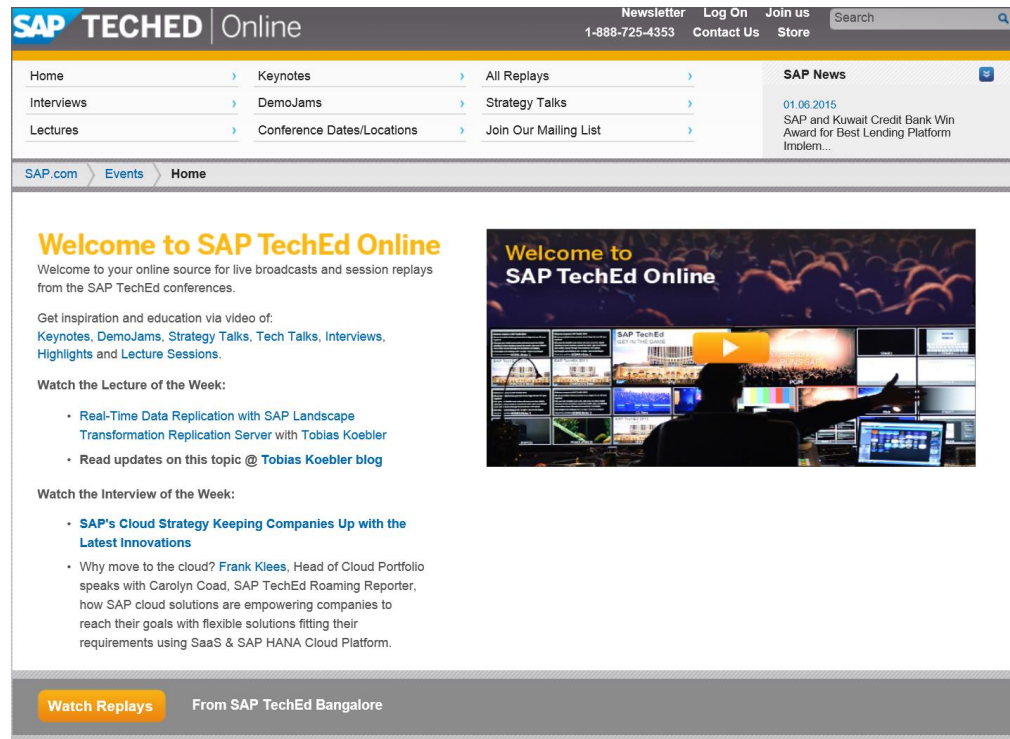


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- Hands-on replays



<http://sapteched.com/online>

Further Information

Lectures & Roadmap Sessions

DEV100	Overview of SAP's Development Platform for SAP HANA and SAP Cloud	TEC801	Road Map Q&A: SAP HANA Cloud Platform
DEV101	Extending SAP Business Suite and SAP S/4HANA with SAP HANA Cloud Platform	DEV801	Road Map Q&A: SAP Interactive Forms by Adobe – On Premise and in the Cloud
DEV102	SAP HANA Cloud Platform: A Guided Tour	DEV802	Road Map Q&A: Internet of Things
DEV107	Cloud Foundry and SAP HANA Cloud Platform: A Natural Evolution	INT801	Road Map Q&A: SAP HANA Cloud Integration
DEV108	Extending SAP Cloud for Customer with SAP HANA Cloud Platform	INT804	Road Map Q&A: SAP API Management
DEV109	Extending Cloud Solutions from SAP Using SAP HANA Cloud Platform (2hr)	MOB801	Road Map Q&A: SAP Mobile Platform, SAP HANA Cloud Platform Mobile Services
DEV202	New Architecture for IoT Cloud Apps: Solution Approaches and New Challenges	TEC104	SAP HANA Cloud Platform for the IoT: Value, Strategy, and Use Cases
DEV300	Architecture Guidelines for Microservices Based on SAP HANA Cloud Platform	TEC110	Best Practice for Releasing Products to SAP HANA Cloud Platform
SEC103	SAP HANA Cloud Platform - A Security Overview	ITM123	SAP Interactive Forms by Adobe: Configuration for ADS on SAP HANA Cloud
BA206	Extend Your Systems with Analytic Applications in SAP HANA Cloud Platform	ITM209	How to Manage the Lifecycle of Your SAP HANA Cloud Platform Applications

Hands-On Workshops

DEV164	Send Your Sensor Data to SAP HANA Cloud Platform with IoT Services
DEV165	Extending SAP Cloud Solutions Using SAP HANA Cloud Platform
DEV263	Cloud Security: Using the Security Services in SAP HANA Cloud Platform
DEV266	Extend the Reach of your SAP Installed Base with SAP HANA Cloud Platform
INT264	Connect to Third-Party Cloud Systems with SAP HANA Cloud Integration
INT265	Integrate SAP HANA Cloud Integration with Enterprise Integration Patterns
SEC360	Connect Your IoT Devices to SAP HANA Cloud Platform Securely and Scalably
UX260	Experience SAP Fiori on SAP HANA Cloud Platform

Mini-CodeJams & Code Reviews

DEV600	Building SAPUI5 Apps with Offline Capabilities with SAP HANA Cloud Platform
DEV609	Create Context Aware Applications with SAP HANA Cloud Platform
DEV610	Deploy Your First HTML5 App to SAP HANA Cloud Platform with SAP Web IDE
DEV611	Secure Your HTML5 Apps in SAP HANA Cloud Platform
MOB603	Mobile Apps with SAPUI5 Via the SAP Web IDE and SAP HANA Cloud Platform
DEV706	Performance Considerations in On-Premise Extension Scenarios
SEC704	Defend Your SAP HANA Cloud Platform Application Against Cyber Attacks
UX702	Develop SAP Fiori Apps on SAP HANA Cloud Platform, Deploy, Configure, Run

Further Information

SAP Public Web

<http://hcp.sap.com>

<http://scn.sap.com/community/developer-center/cloud-platform>

Watch SAP TechEd Online

www.saptech.com/online

Learn using SAP HANA Cloud Platform with openSAP

Covering all main services

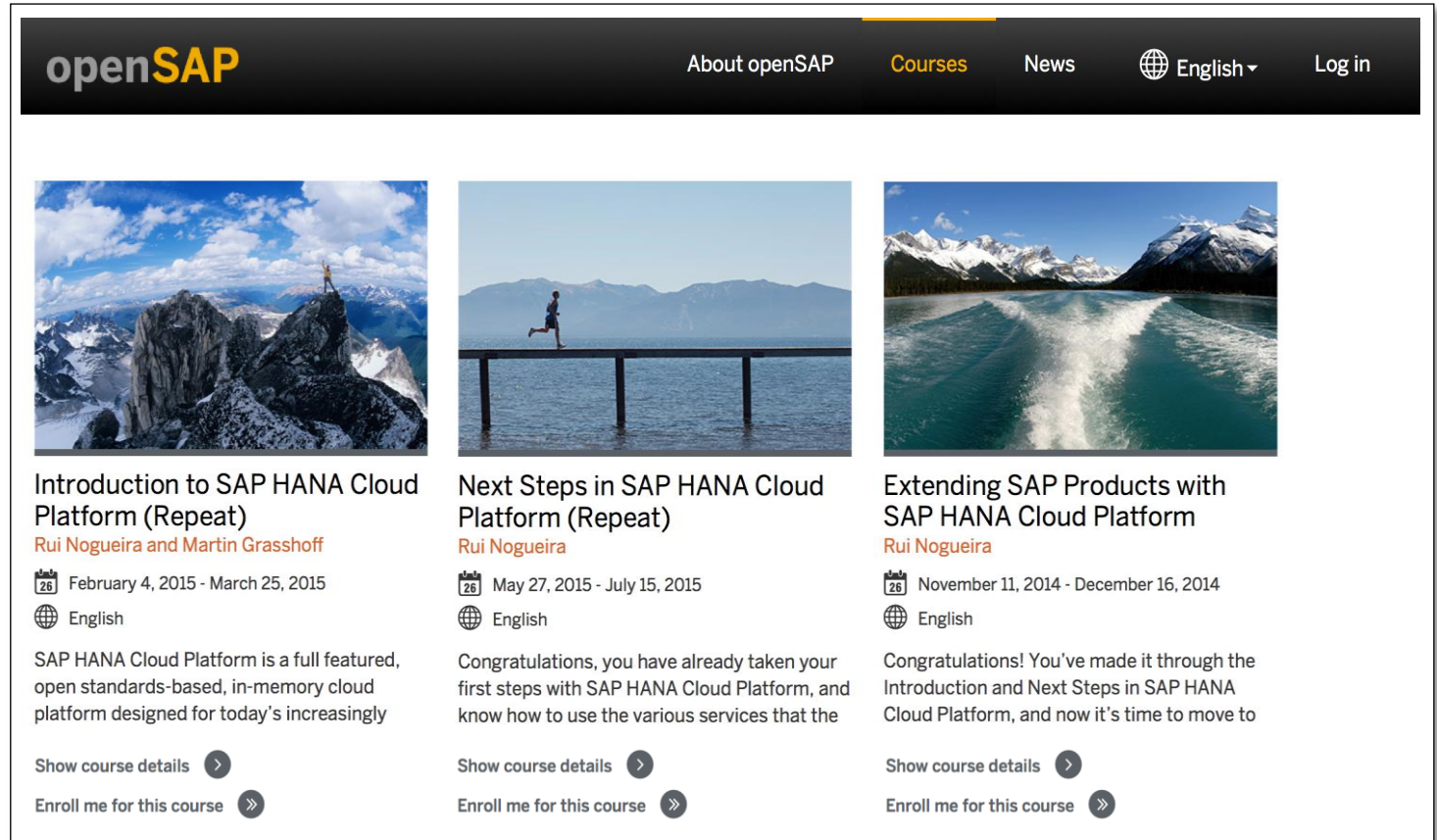
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Content for free

Learn at your own pace

During courses you can obtain a record of achievement

Visit <https://open.sap.com/courses>



The screenshot displays the openSAP website interface. At the top, there is a dark navigation bar with the 'openSAP' logo on the left and links for 'About openSAP', 'Courses' (highlighted), 'News', 'English' (with a globe icon and a dropdown arrow), and 'Log in' on the right. Below the navigation bar, three course cards are presented in a grid. Each card features a landscape image, a title, an instructor name, a duration and date range, a language indicator, a brief description, and two buttons at the bottom: 'Show course details' and 'Enroll me for this course'.

Course Title	Instructor	Duration & Date	Language	Description
Introduction to SAP HANA Cloud Platform (Repeat)	Rui Nogueira and Martin Grasshoff	February 4, 2015 - March 25, 2015	English	SAP HANA Cloud Platform is a full featured, open standards-based, in-memory cloud platform designed for today's increasingly
Next Steps in SAP HANA Cloud Platform (Repeat)	Rui Nogueira	May 27, 2015 - July 15, 2015	English	Congratulations, you have already taken your first steps with SAP HANA Cloud Platform, and know how to use the various services that the
Extending SAP Products with SAP HANA Cloud Platform	Rui Nogueira	November 11, 2014 - December 16, 2014	English	Congratulations! You've made it through the Introduction and Next Steps in SAP HANA Cloud Platform, and now it's time to move to

Feedback

Please complete your session evaluation for
DEV102





Thank you

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<http://twitter.com/steinermatt>



<http://scn.sap.com/people/steinermatt/>



<http://about.me/steinermatt>

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