

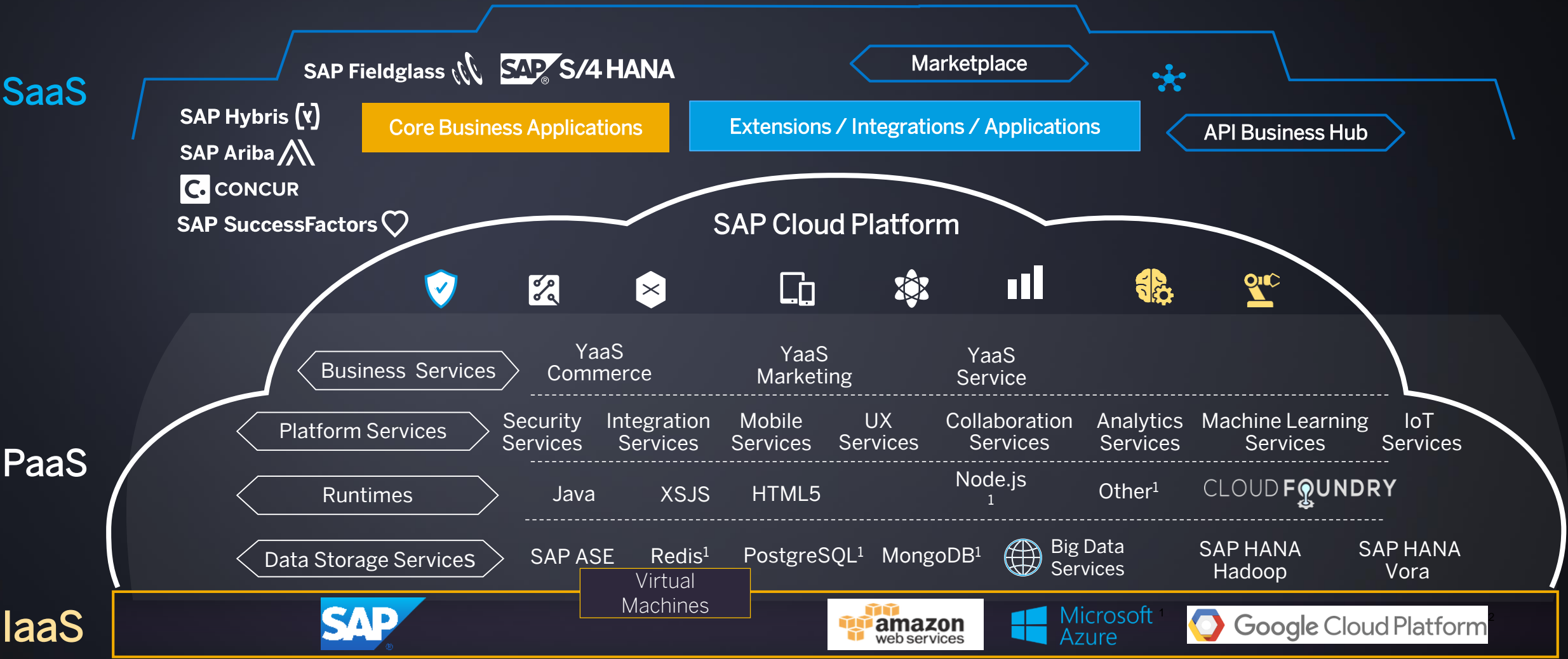
# SAP Cloud Platform – Technical Overview

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# August, 2017



# SAP Cloud Platform Architecture



# Key Innovation Scenarios with SAP Cloud Platform

 Agile  
Business

 Enterprise  
Optimization

 Digital  
Transformation

SAP Hybris 

SAP SuccessFactors 

 S/4 HANA

SAP Fieldglass 

SAP Ariba 

 CONCUR

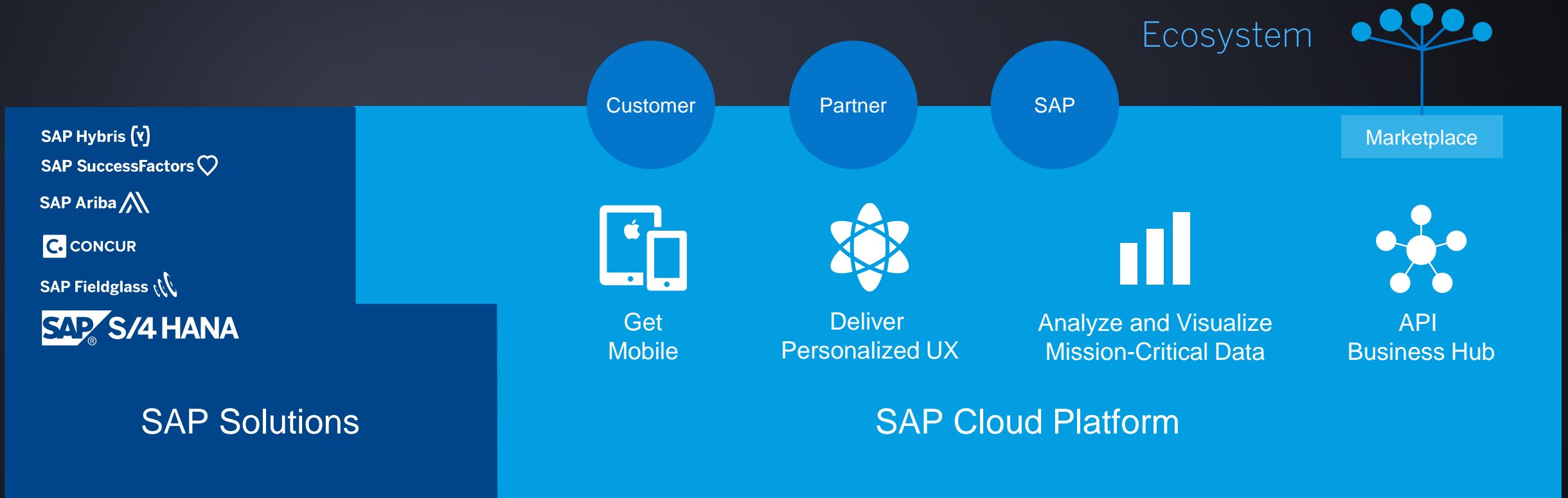
SAP Cloud Platform

SAP Solutions

Data as your Foundation

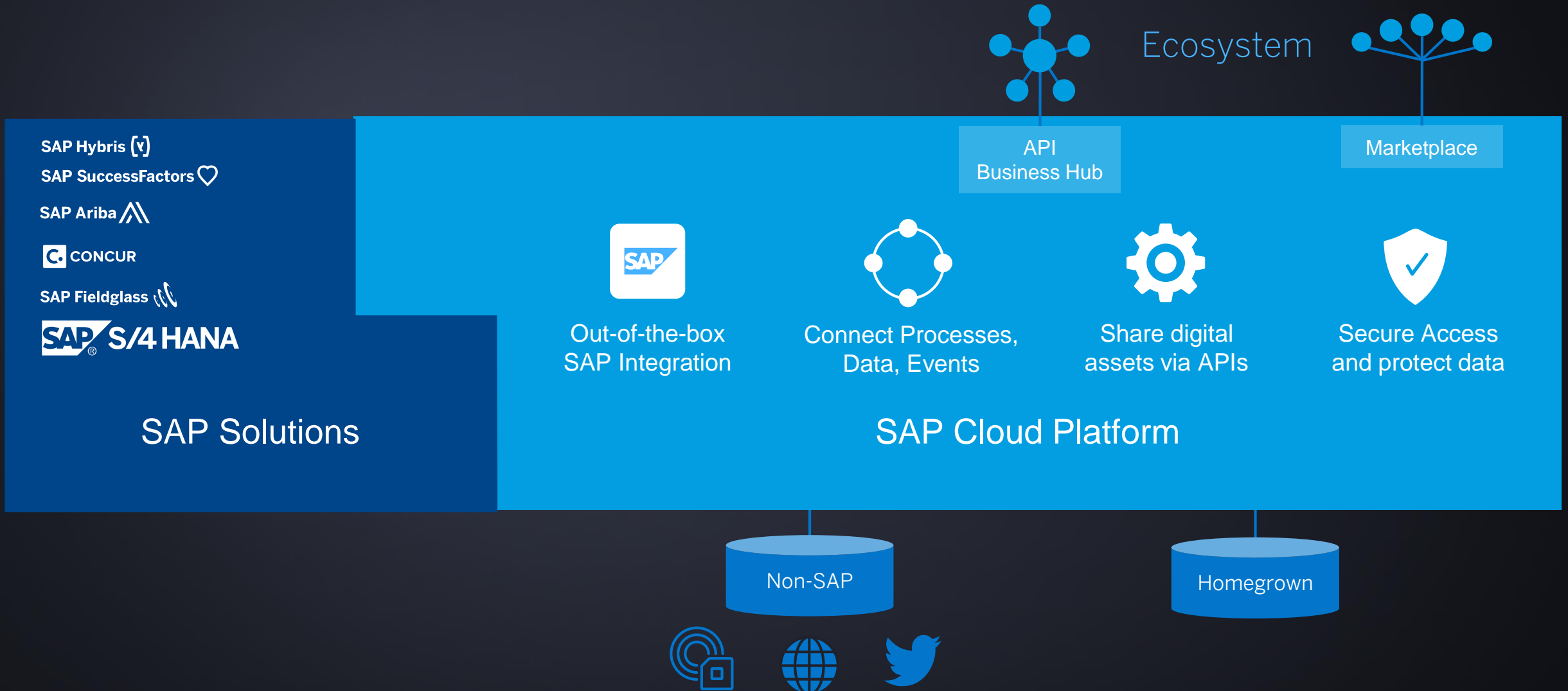


# Agile Business

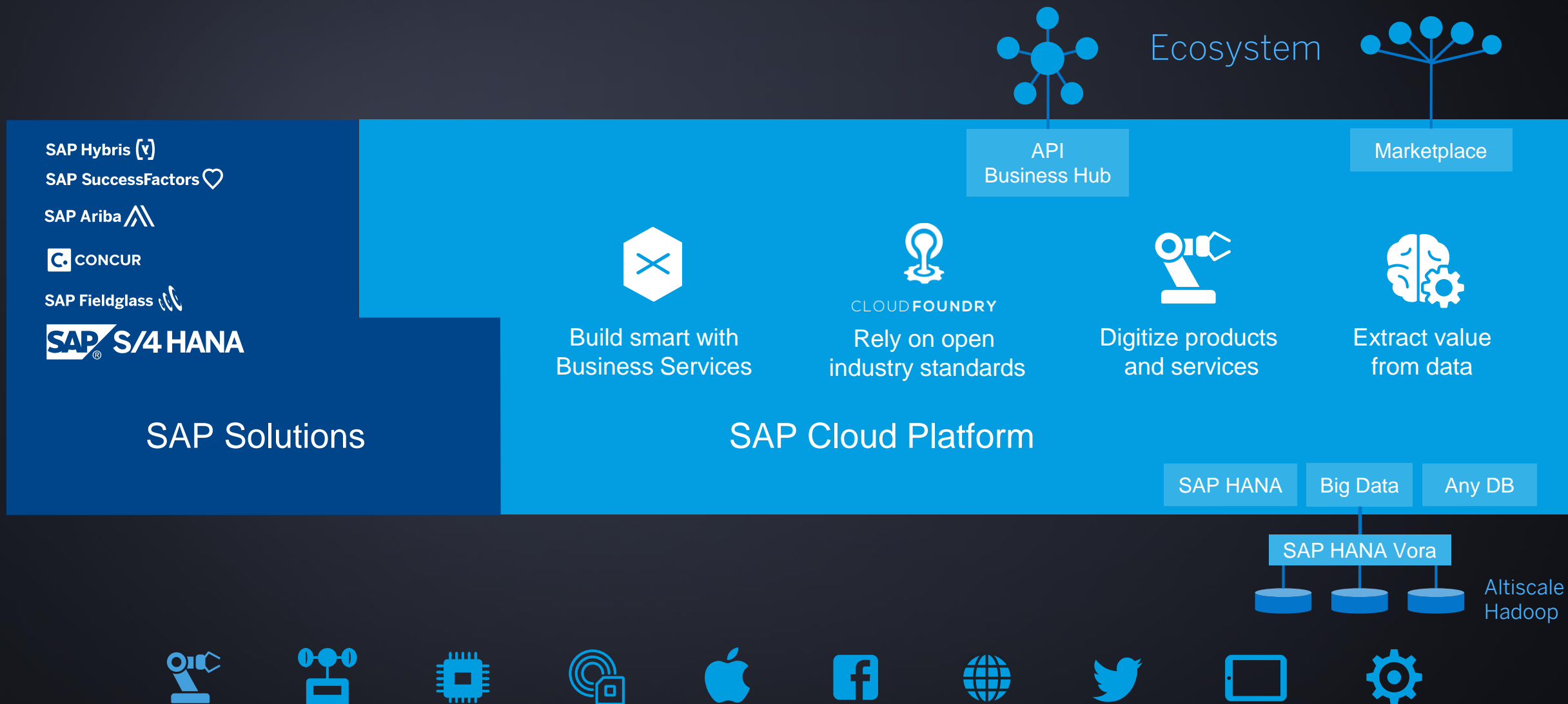




# Enterprise Optimization



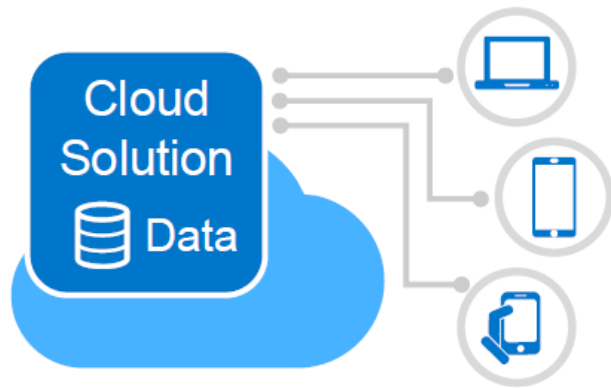
# NEW Digital Transformation



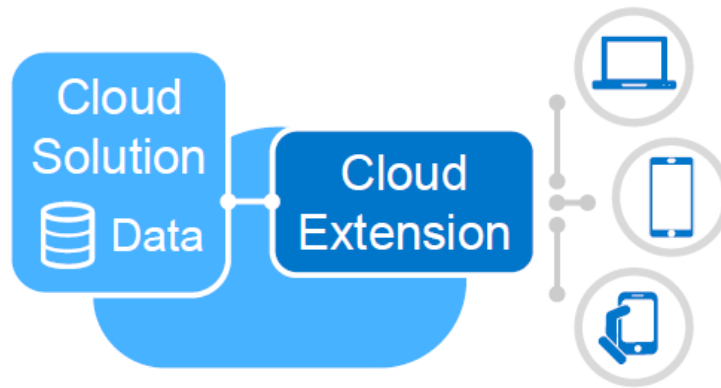
# Scenarios

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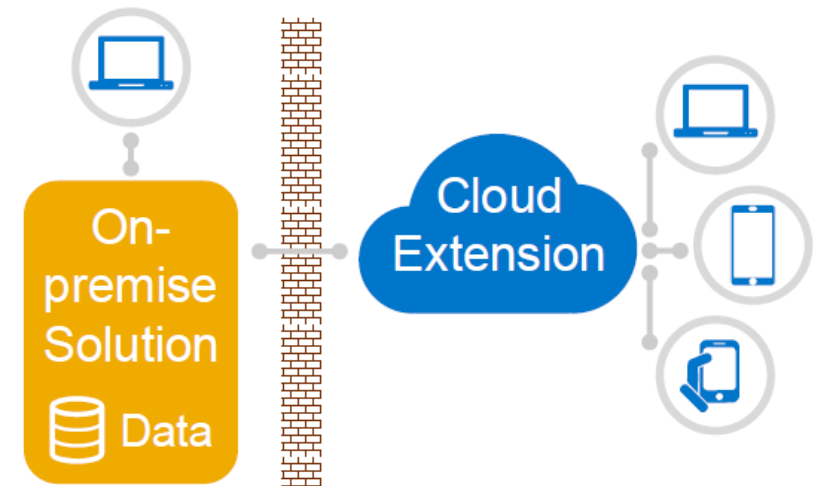
## NEW APPLICATIONS



## CLOUD EXTENSION



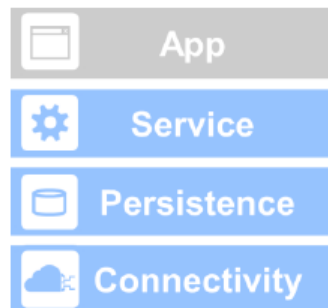
## ON-PREMISE EXTENSION



# HCP application example

## - new HCP app, no integration

Example



- Fiori UI (HTML5)



- Runtime in HCP where you app code is run (executed), e.g. Java code.



- DBaaS - Relational Data Base like SAP ASE or HANA in HCP



- Not required / used

- User connects with a web browser.

- User input is used to fetch data from persistence (search).
- New user input (BOM items) are stored in persistence.

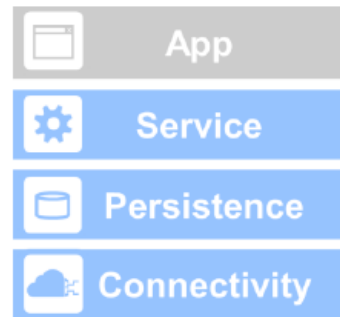
- Data is stored in HANA or ASE etc.



# HCP application example

## - extending a cloud solution

Example



- Fiori UI (HTML5)

Same as before



- Runtime in HCP where app code is run (executed), e.g. Java code.
- Integration – HCI to attach remote data source



- SAP SaaS – cloud solution like Ariba, C4C, SFSF, ...



- HCI connects HCP with SaaS (C4C, SFSF)



- User connects with a web browser.

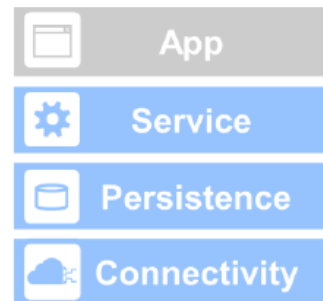
Same as before

- User input is used to fetch data from persistence (search) => remote cloud
- User input (BOM items) are stored in persistence => remote cloud
- SaaS – persists data, performs functions
- Eases integration with predefined integration flows. Brings manageability and control

# HCP application example

## - on-premise extensions

Example



- Fiori UI (HTML5)

Same as before



- Runtime in HCP where app code is run (executed), e.g. Java code.
- Integration – HCI to attach remote data source

Same as before



- SAP back end e.g. ERP, CRM



- Connects with SAP backend

Same as before



- User connects with a web browser.

Same as before

- User input is used to fetch data from persistence (search) => remote on-prem system
- User input (BOM items) are stored in persistence => on-prem system

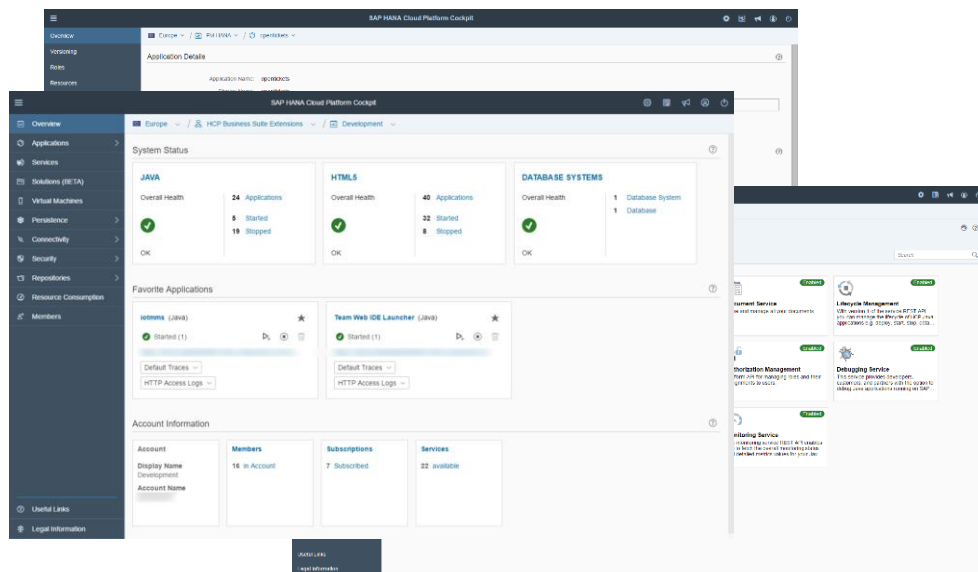
- SAP system – persists data, performs functions

- Eases integration with predefined integration flows. Brings manageability and control

Same as before



# Development Tools



## What is the Cockpit?

The cockpit is a web-based user interface for deploying, running, and managing your web applications and connecting them with services on the cloud platform.



## Application Development

**Java** - The platform is Java EE 6 Web Profile certified. You can develop new Java applications or run existing ones.

**SAP HANA** - You can use the SAP HANA development tools to create analytical models and build applications with SAP HANA programmatic interfaces and the integrated development environment.

**HTML5** - You can develop and run lightweight HTML5 applications on the cloud platform. With the UI development toolkit for HTML5 (SAPUI5) you can develop rich user interfaces for modern web business applications.

SAP HANA Cloud Platform

## Create Enterprise Apps Your Users Love with Build



### One Set of Cloud-Based Tools Gives You the Power to Build Your App

Build allows you to collaboratively develop prototypes with your project team, engage end-users for feedback, or jumpstart your designs with one of many prototype examples from the gallery – all while learning the design process.

Discover how Build's comprehensive tools are the next frontier in creating design-led applications.

# Runtimes & Containers

## Runtimes/Programming Models Overview



### Java

- Develop, deploy and use Java applications in a cloud environment
- Java SE 6/7/8 and Java EE 6 Web Profile certified
- E.g. complex integration projects

# XSJS

### 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

# Runtimes & Containers (CF) buildpacks



## Java

- Develop, deploy and operate Java applications
- E.g. complex integration projects



## Node.js and HTML5

- Develop and run node.js and HTML5 applications
- Benefit from multiple Node.js packages available and SAPUI5 code templates



## Python

- Develop and run python applications in the cloud
- Use multiple libraries available for data manipulation, machine learning and analysis

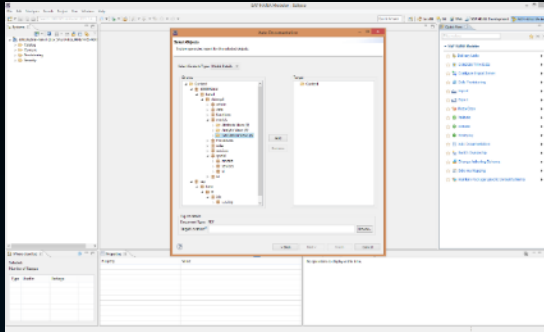


## BYOL

- Bring your own language and runtime of choice
- Choose from existing buildpacks or develop your own

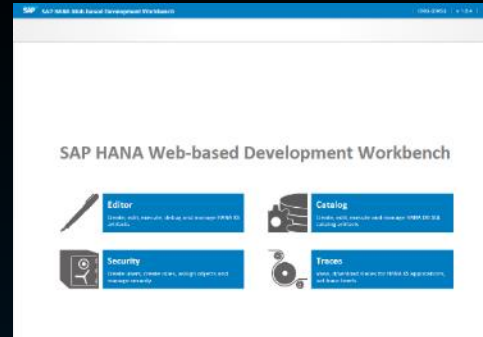
# DevOps Services

## Development Overview



### Eclipse

- Use of the popular open-source Eclipse IDE on the local computer
- Full fledged Integrated Development Environment with the ability to add your favorite plugins and profit from the huge ecosystem



### SAP HANA Web-based Development Workbench

- Browser-based IDE for lightweight creation and editing of development objects and debugging for SAP HANA
- Four sub-tools: Editor, Catalog, Security, Traces



### SAP Web IDE

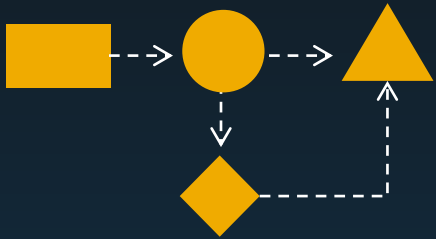
- Enable developers to build new business applications in the cloud with zero footprint
- Simplify SAP Fiori and SAP UI5 development and support end-to-end application lifecycle with one tool

Complement each other



# SAP Web IDE

Simplify SAPUI5 development – support end-to-end application lifecycle with one tool



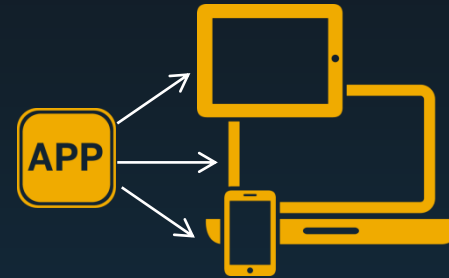
Prototype



Develop



Test



Package/  
Deploy

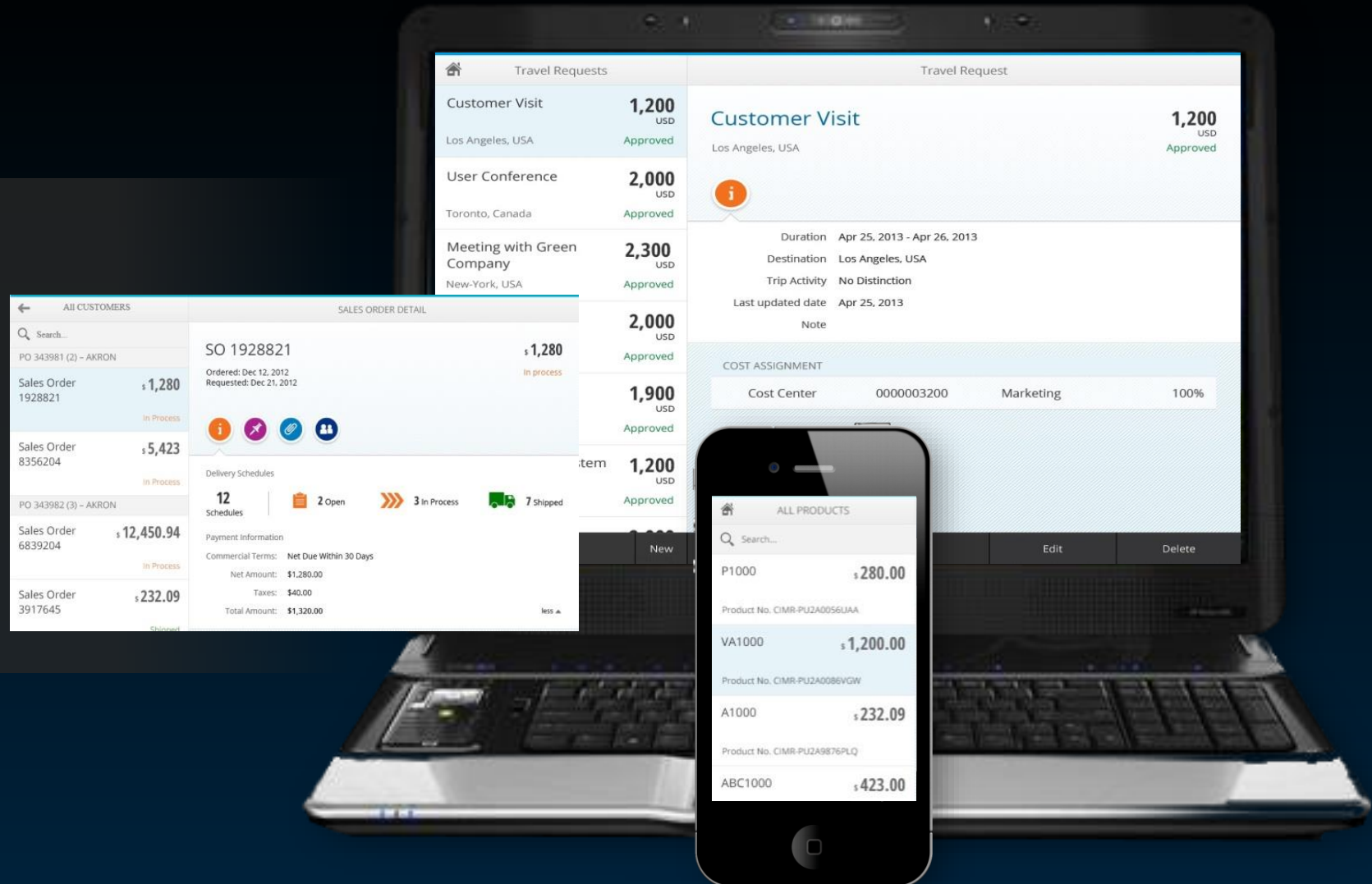


Extend

# Support for all environments

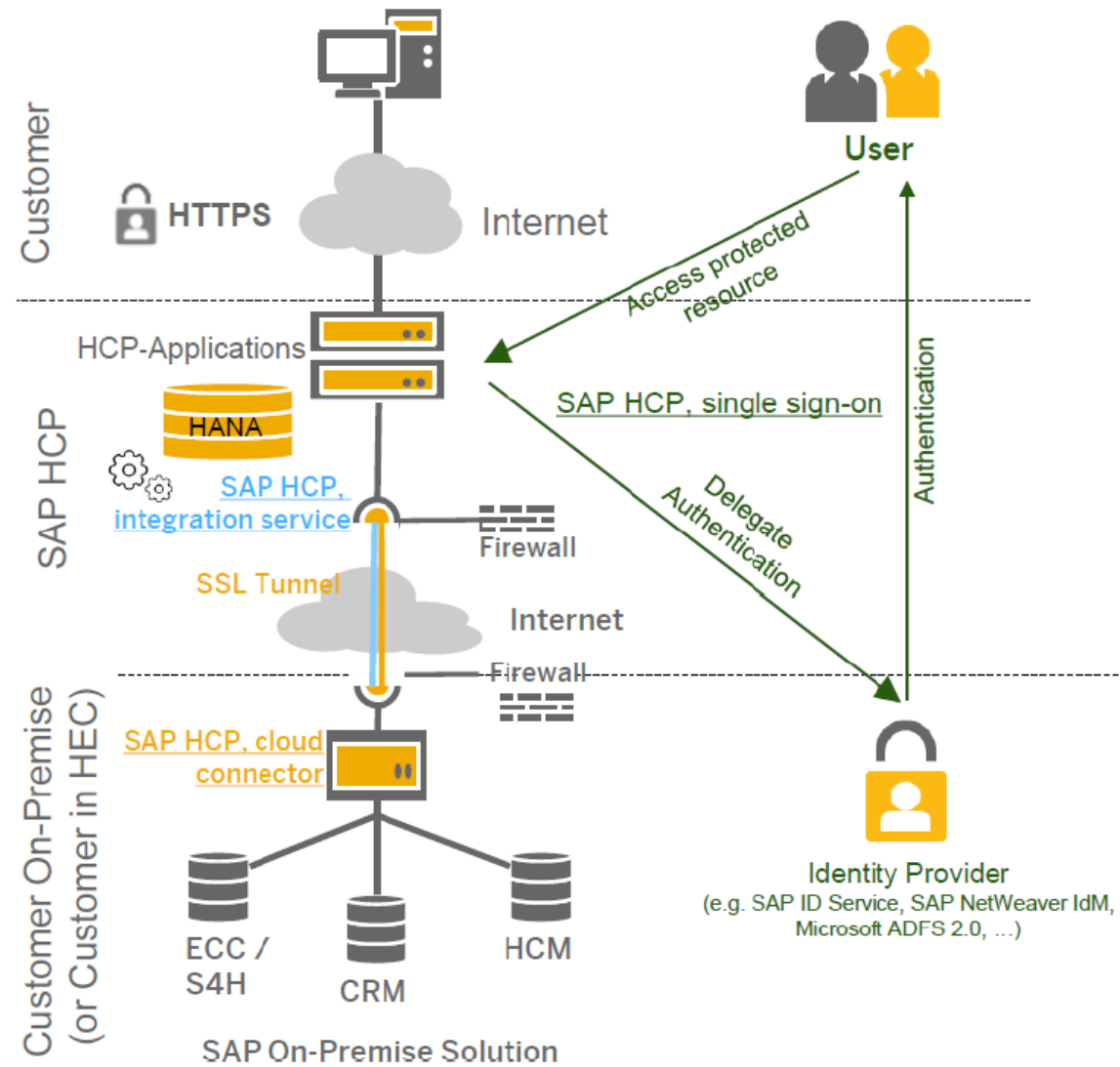
Seamlessly deploy to run on any device – automatically renders for phone, tablet, desktop

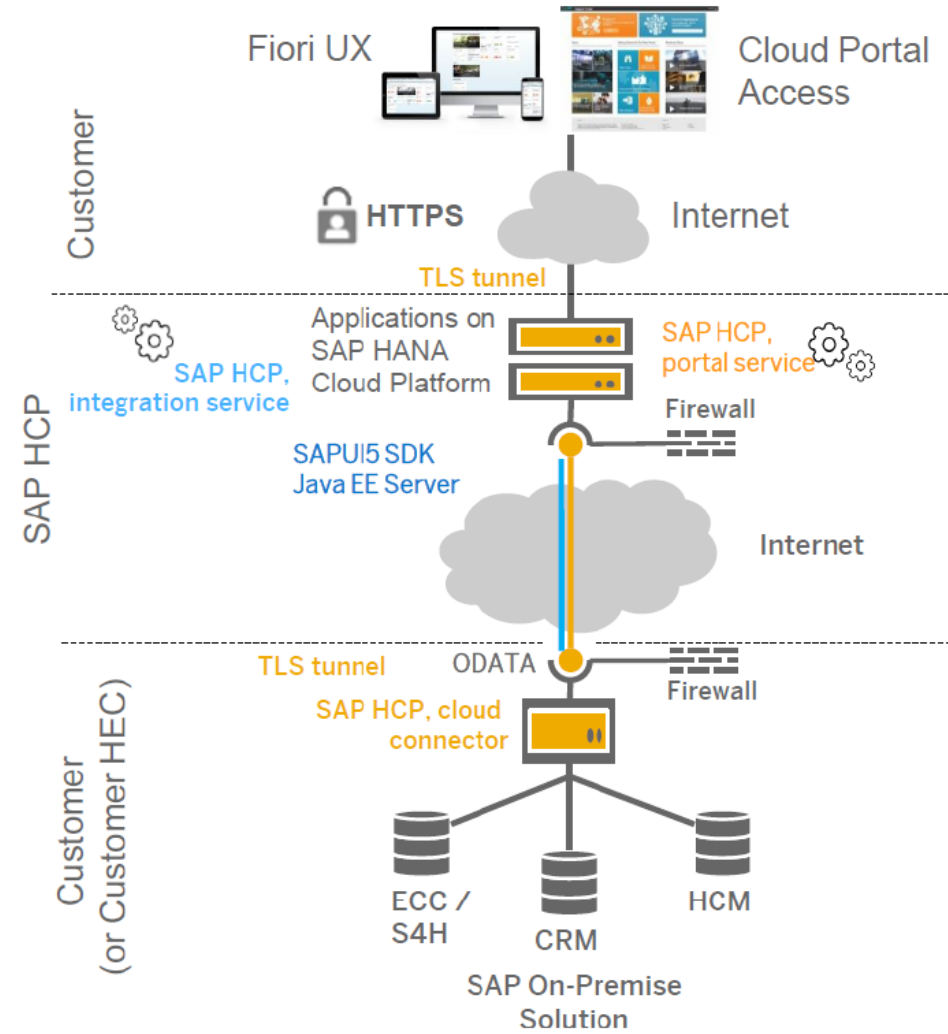
Deploy to SAP ABAP, or  
SAP HANA Cloud Platform/SAP  
HANA XS\*

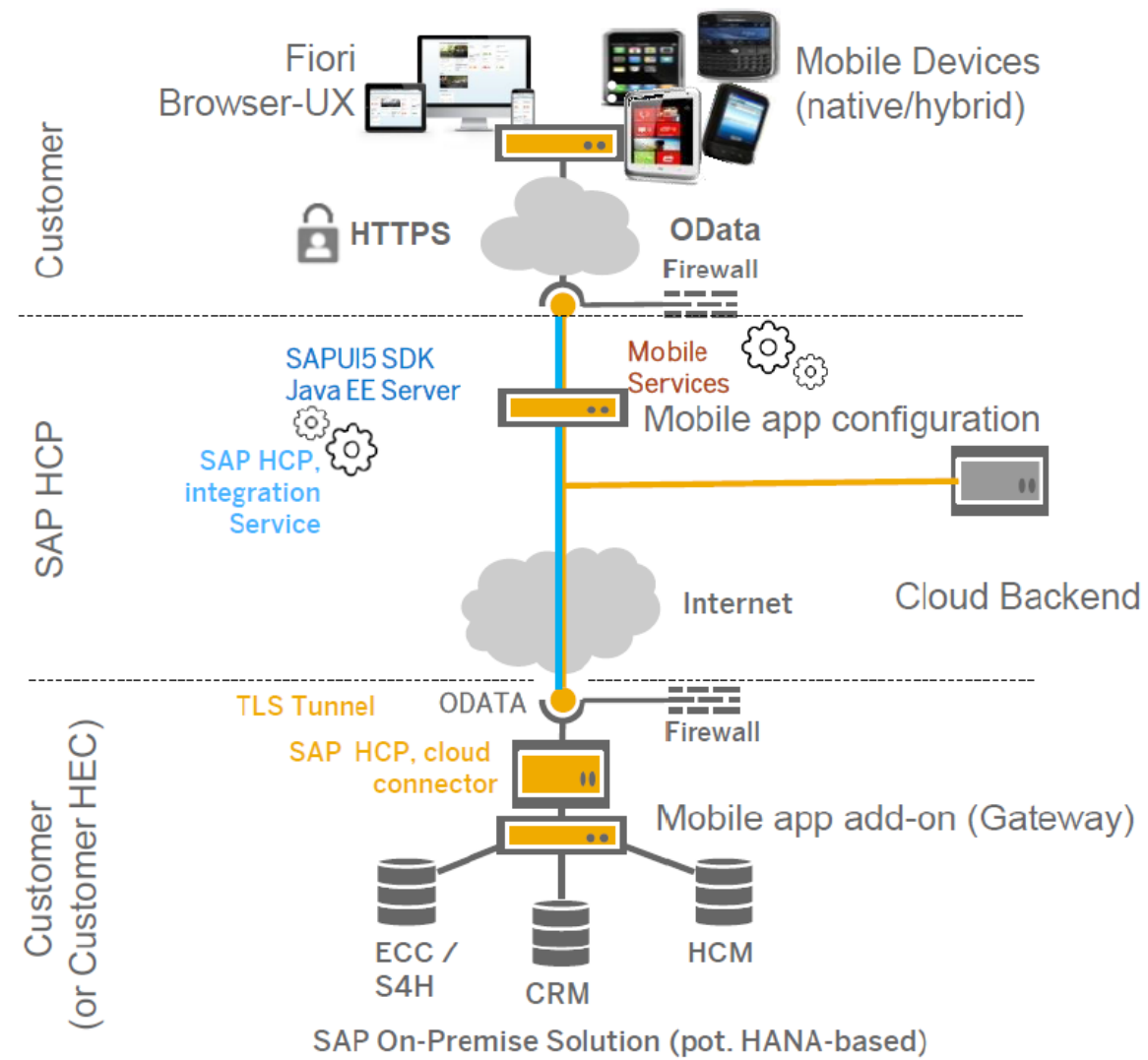


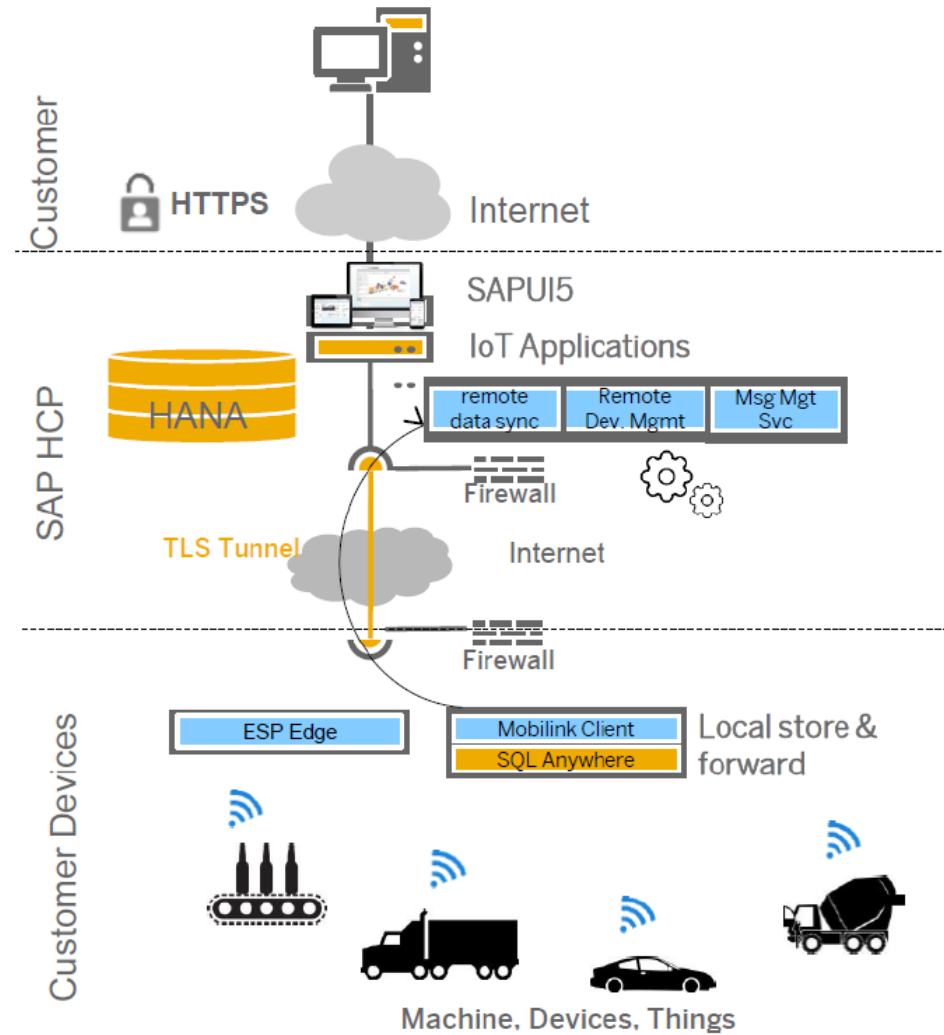


# Architecture Examples









# Where To Find More Information

## Benefit from free developer account

- Free unlimited SAP HANA Cloud Platform developer account at <http://hcp.sap.com/developers>

## Subscribe for openSAP courses

- In-depth courses for SAP HANA Cloud Platform available online free of charge at <http://open.sap.com>

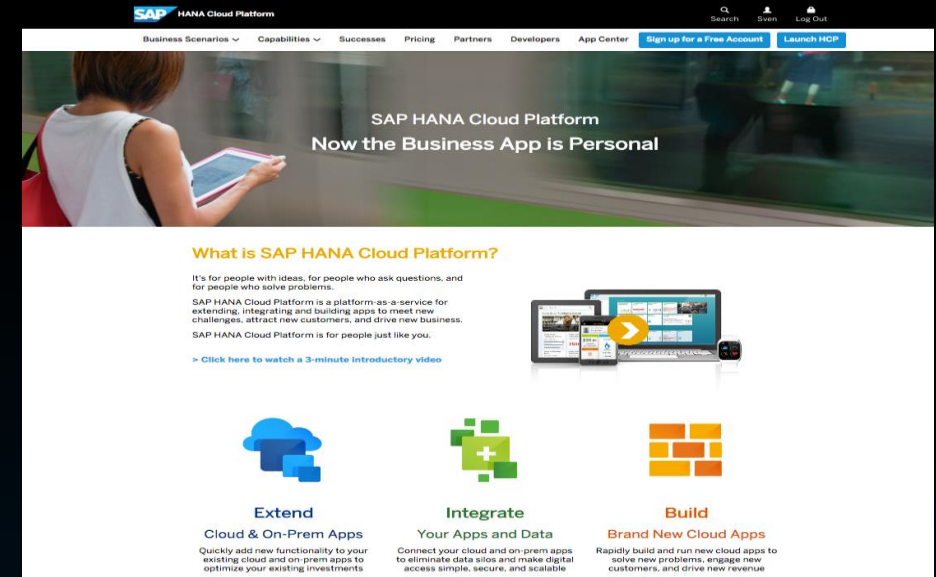
## Participate in SAP Community Network

- <http://scn.sap.com>

## Open Innovation in a Digital Economy with HANA Cloud Platform

- <http://go.sap.com/documents/2016/10/3ca6f918-8e7c-0010-82c7-eda71af511fa.html>

<http://cloudplatform.sap.com>



## SAP UI5

- UI Development Toolkit for HTML5 - Demo Kit (interactive doc on SAPUI5 / OpenUI5):

<https://sapui5.hana.ondemand.com/sdk/>

<https://openui5.hana.ondemand.com/>

<https://sapui5.hana.ondemand.com/explored.html#/>

- Open UI5:

<http://sap.github.io/openui5/>

- UI Development with SAPUI5 documentation:

<https://help.hana.ondemand.com/help/frameset.htm?e8fdaa44bb5710148368de02b150bce3.html>

- SAP Fiori design:

<https://experience.sap.com/fiori-design-web/>



# Thank you!

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