



# The Universe of SAP BTP in a Nutshell

## Governance

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Public

# Agenda

## Introduction

- Digital Platforms and the Intelligent Sustainable Enterprise

## Planning and Setup for SAP BTP operations

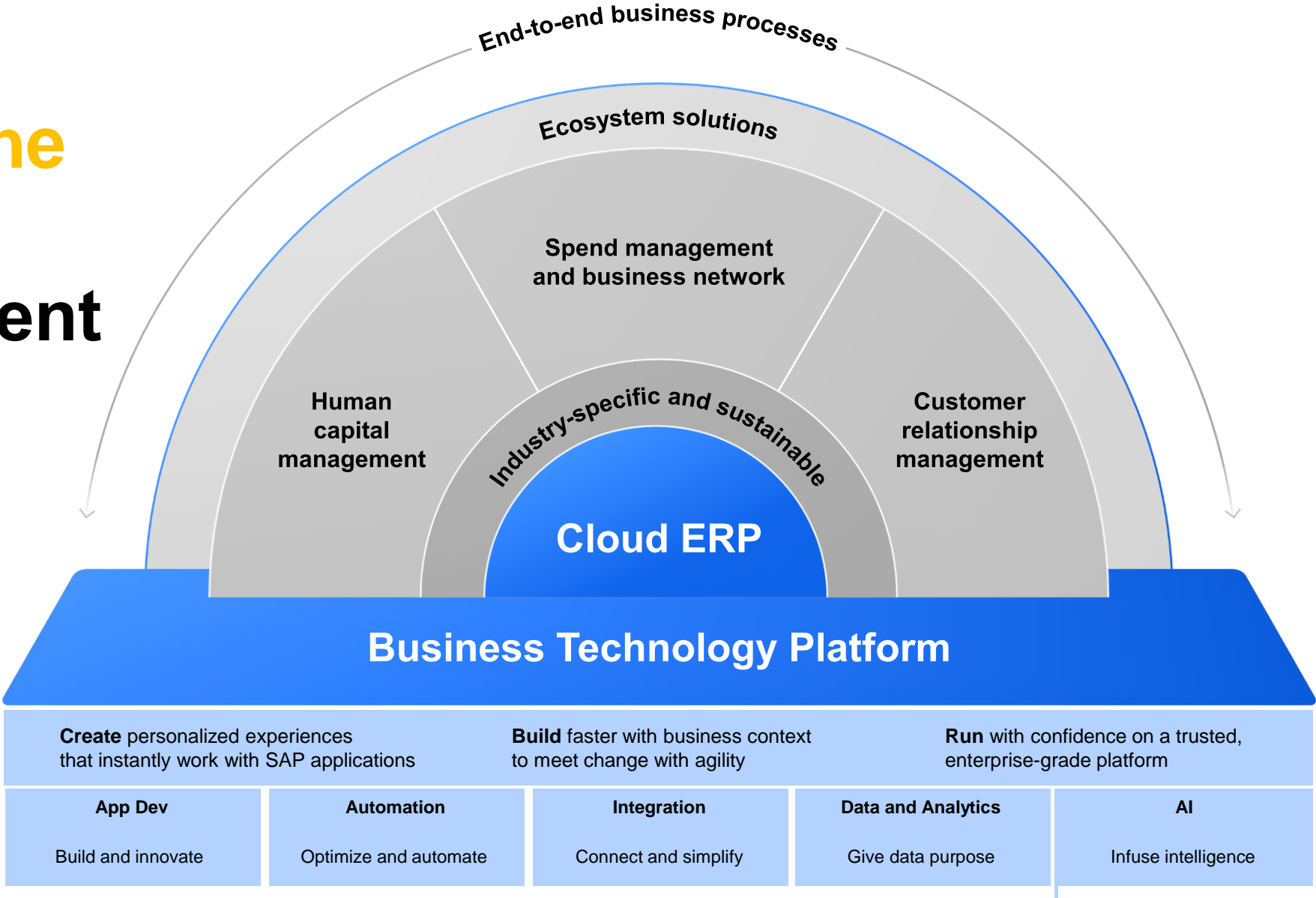
- Overview
- Onboarding
- Account Model
- Security Model
- Entitlements
- Automation
- Cost management

## How SAP IT runs on SAP Business Technology Platform

- Details

# Introduction

SAP BTP is the foundation of the Intelligent Sustainable Enterprise



# Digital technology platforms are a key innovation enabler

Firms that have a flexible technology foundation and a business operating model that can change quickly **grow nearly three times faster than their industry average.**

FORRESTER®

Forrester: Future Fit Firms Outpace The Competition, April 2021

Public



# **Planning and Setup for SAP BTP operations**

# Planning and Setup for SAP BTP operations



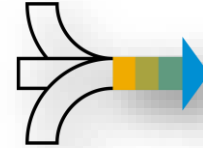
## Governance Model

- Team setups (including IT support roles and responsibilities)
- Onboarding process for development projects
- Knowledge transfer process for the involved teams
- Support processes, operations documentation, and involved tools
- Define activities to ramp up resources and implement changes
- Help desk processes, incident and change management



## Account Model

- Hierarchical structure between global accounts, directories, and subaccounts
- Staged development environment
- Cost management
- Automation



## Security and Compliance

- Authentication (User Store, IAS/IDP, Platform vs. Business Users)
- Authorization (Role Templates, Roles, Role Collections, Attributes)
- Identity propagation / SSO
- On-prem connectivity (SAP Cloud Connector)
- Data Protection and Privacy Requirements



## Business Continuity

- High Availability and Failover

## SAP Business Technology Platform

Foundational Information

Request a 1:1 Follow Up Session

Additional Resources

### Foundational Information



#### Register for Live Onboarding Webinars

Designed to help you and your colleagues establish a foundation for success. These 60-minute sessions cover how you and your team can get started with your SAP Business Technology Platform (SAP BTP) solutions. Every session includes experts to field questions live.

Please register for the language and date that best suit your schedule.



#### View Recorded BTP Onboarding Webinars

We know it's not always possible to make live sessions. Accordingly, we've included recorded sessions available on demand. This includes onboarding and deep-dive sessions on topics of broad interest.



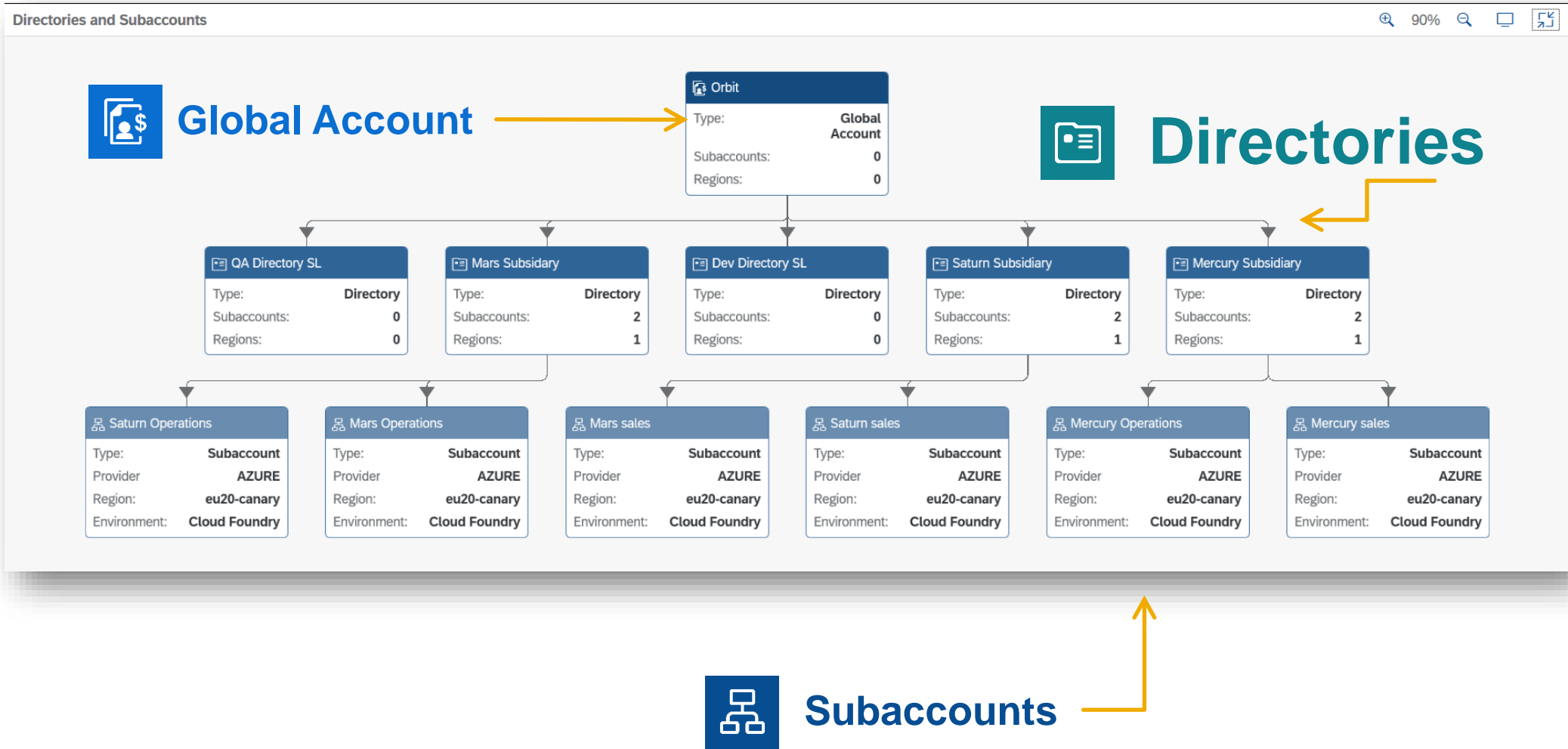
#### BTP Onboarding Blog Series & Quick Hit Videos

Get started on the right foot by exploring many foundational concepts critical to succeeding with BTP solutions in our onboarding blog series and curated videos on common onboarding topics.

<https://support.sap.com/en/product/onboarding-resource-center/business-technology-platform.html>



# BTP Account Model



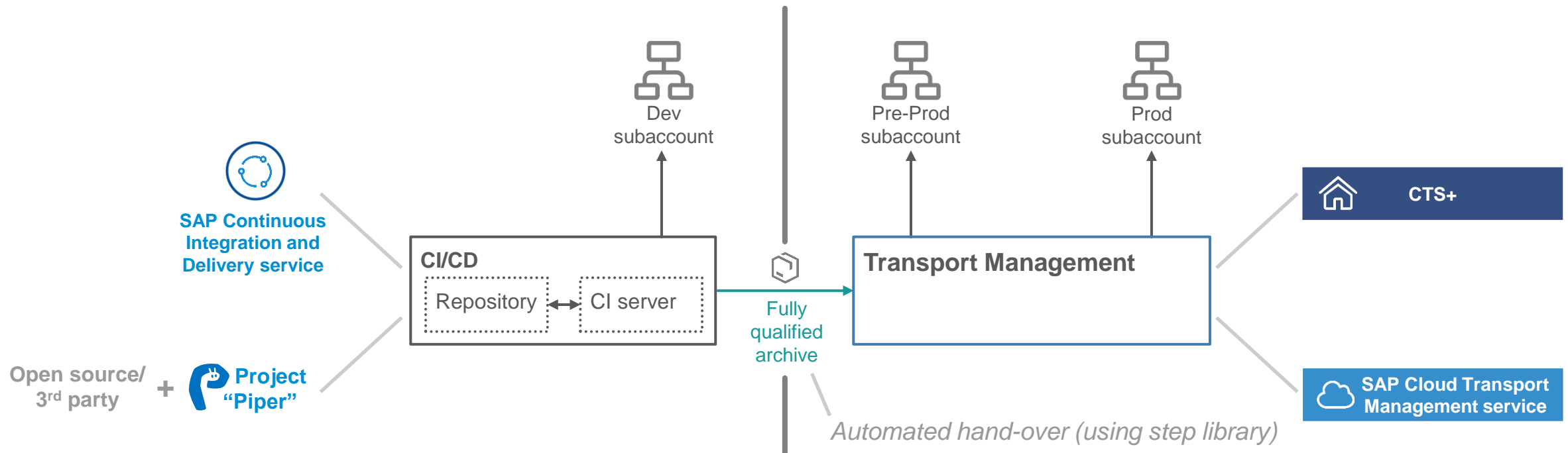
# Change management: Using a staged development landscape

## Development landscape

- Based on *Continuous Integration* principles, managed by DevOps team
- Verification of single developer change
- Typically fully automated

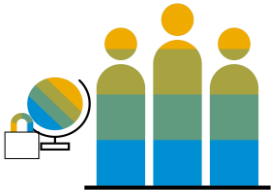
## Delivery landscape

- Based on strict *Transport Management* rules (policies, schedules), managed by ops/approvers
- Verification of release candidate version
- Typically done with manual confirmation



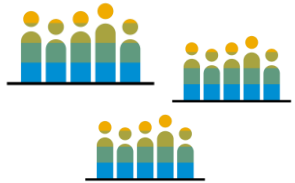
# Global Account and Subaccount Security

Fine-granular authorization concept for the management of global accounts



**Global/Sub- account membership is determined by the assignment of a role collection**

- [Member management](#) refers to managing permissions for platform users.  
**NEW:** Support for custom identity provider (IDP)
- Members' permissions apply to all operations that are associated with the global account, the organization, or the space, irrespective of the tool used.

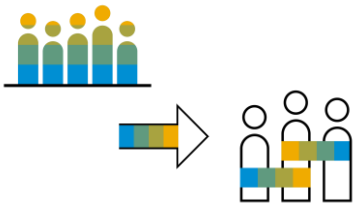


**Predefined [role collections](#) for global account define full and read-only access**

- Global Account Administrator | Global Account Viewer
- Subaccount Administrator | Subaccount Viewer
- Directory Administrator | Directory Viewer

**Define your own role collections with the authorizations delivered by SAP**

- The predefined default role collections contain predefined roles. They're based on [role templates](#), which are provided by applications. The application identifier refers to the application, which provides the role templates.
- Role collections available in the global account don't necessarily exist in the subaccounts.



# Entitlements



## Manage entitlements for both services and multitenant applications

- If you have cloud credits, then you are eligible to subscribe to any multitenant application that is available to your global account in the Cloud Foundry environment.



## Assign entitlements to subaccounts individually

- Global Account → Entitlement → Entity Assignment
- Global Account → Entitlement → Service Assignment (View)
- Subaccount → Entitlement



## Assign entitlements to directories

- Directories to group subaccounts → assign entitlements to a directory
- Option to automatically assign a certain amount of quota to each subaccount added to that directory
- Like in subaccounts, quota assigned is shown as used, even if there are no subaccounts in that directory ("reserve")

See [Configure Entitlements and Quotas for Directories \(Beta\)](#)

# Tools for Admins, DevOps & Developers: CLI and APIs

## Command Line Interface

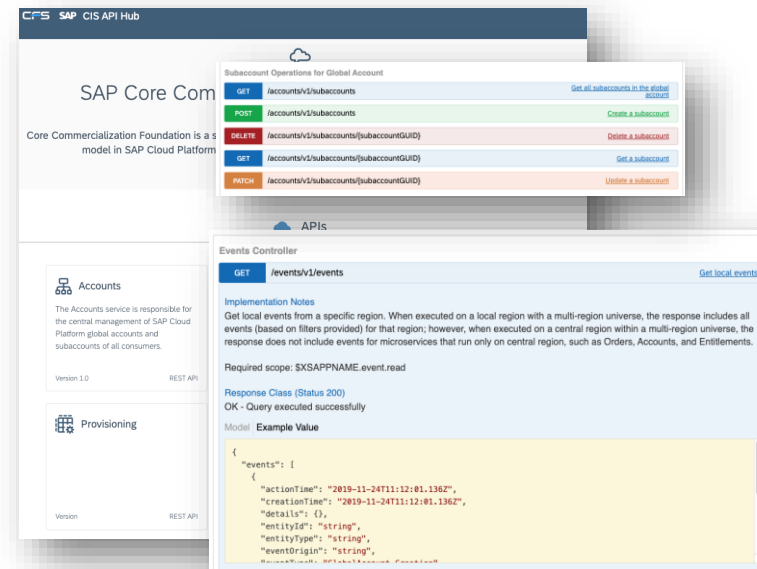
### Scripting and DevOps

```
C02T82R0GTF1:~ i059286$ cis create-subaccount -l cpi-demo-subdomain -u michael  
-n test -r cn40-canary -s cpi-demo-test-subdomain -d "Subaccount for testing"  
Password:  
  
Creating a subaccount in global account be600674-5c1d-4063-aed0-3b3354f63011.  
  
subaccount id: 757fd747-afcc-4fd4-a0f3-a0f0ca094115  
display name: test  
description: Subaccount for testing  
region: cn40-canary  
subdomain: cpi-demo-test-subdomain  
beta-enabled: false  
state: Started  
state message:  
  
Command runs in the background (Job ID: 11335).  
Use 'cis subaccounts' to verify creation of the subaccount.  
OK  
C02T82R0GTF1:~ i059286$
```

Easy CLI with built-in help & commands  
for all available operations

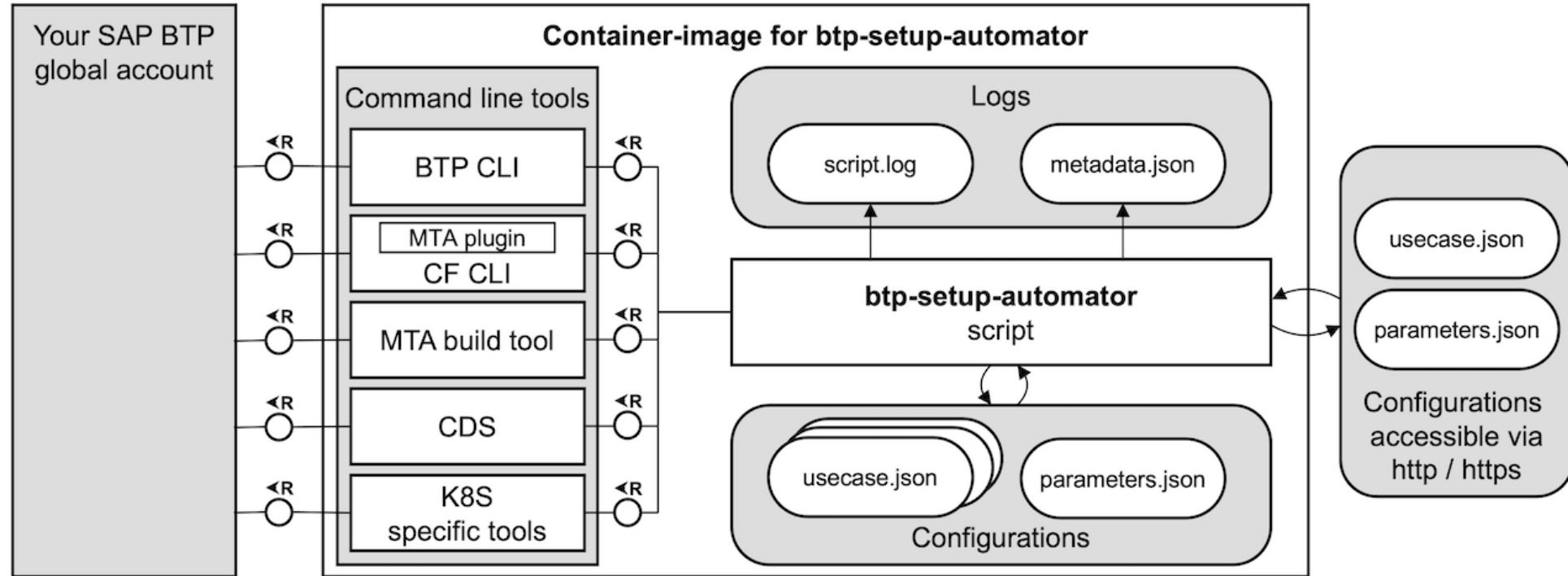
## APIs

### Account, Entitlement and Provisioning



REST API, Events, Swagger Reference

# Setup Automator for SAP Business Technology Platform



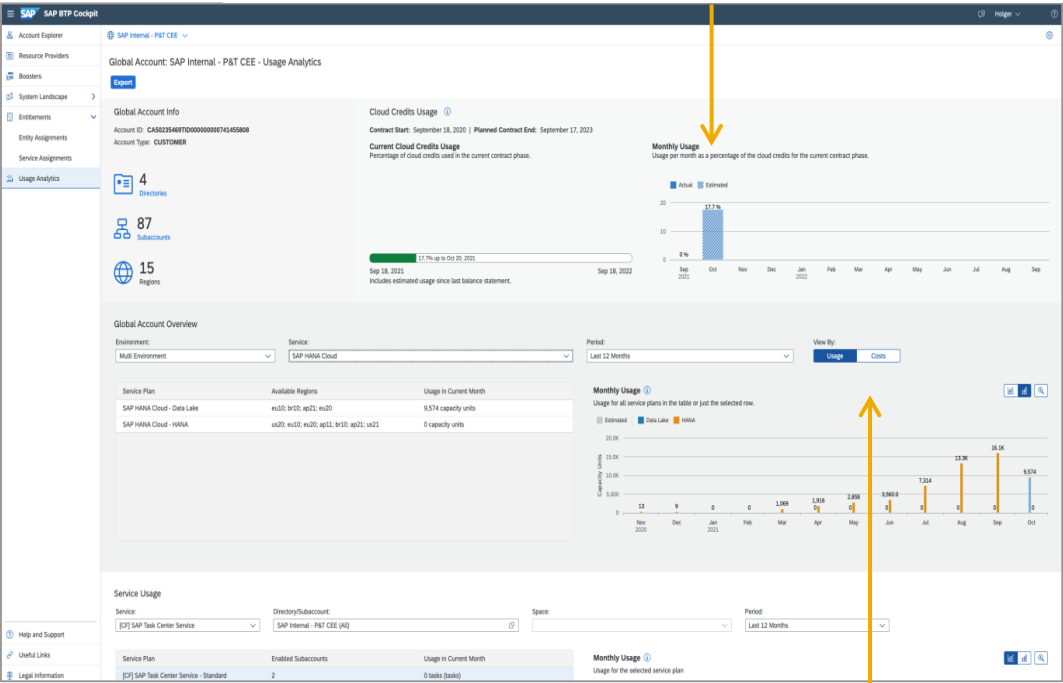
<https://github.com/SAP-samples/btp-setup-automator>

# Usage Transparency to Allow Full Control

## Usage Information for the Main Entities

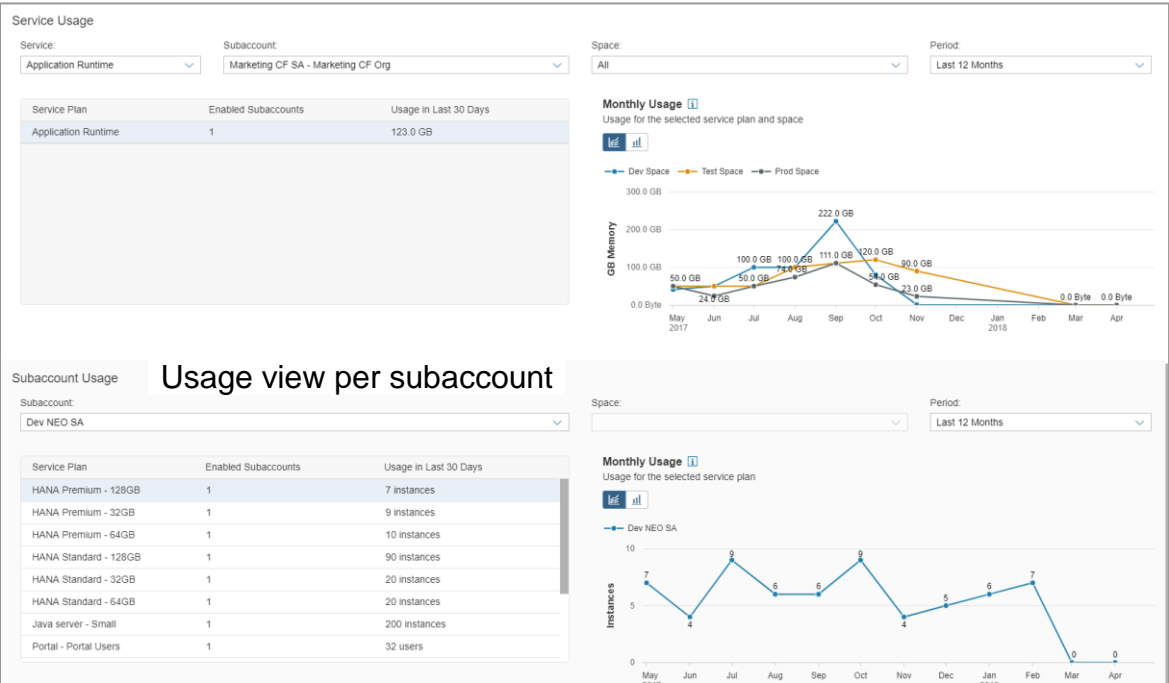
### Global Account – Subaccount – Service

Monthly usage information as percentage of Cloud Credits



Monthly usage (in blocks) and cost (contract currency) information

Usage view per service



# Usage Data Export

## Usage Data Export (quantitative)

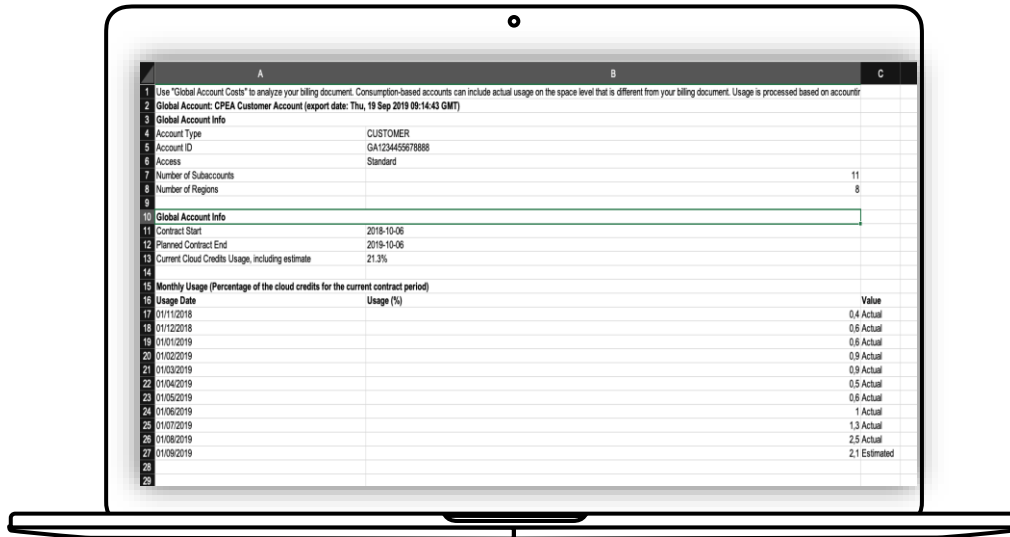
- Usage data for consumed services along rate plan and month
- Service usage data for global account, sub-account and space level (CF only).



# Cost Transparency and Cost Distribution

## Step by Step

### Cost Distribution on Service Plan Level

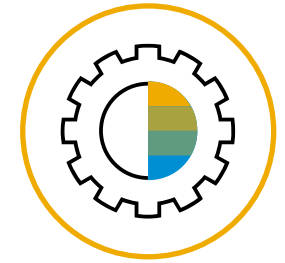


A	B	C
1	Use "Global Account Costs" to analyze your billing document. Consumption-based accounts can include actual usage on the space level that is different from your billing document. Usage is processed based on account	
2	Global Account: CPEA Customer Account (export date: Thu, 19 Sep 2019 09:14:43 GMT)	
3	Global Account Info	
4	Account Type	CUSTOMER
5	Account ID	GA12345678888
6	Access	Standard
7	Number of Subaccounts	11
8	Number of Regions	8
9		
10	Global Account Info	
11	Contract Start	2018-10-08
12	Planned Contract End	2019-10-08
13	Current Cloud Credits Usage, including estimate	21.3%
14		
15	Monthly Usage (Percentage of the cloud credits for the current contract period)	
16	Usage Date	Value
17	01/11/2018	0.4 Actual
18	01/12/2018	0.6 Actual
19	01/01/2019	0.8 Actual
20	01/02/2019	0.9 Actual
21	01/03/2019	0.9 Actual
22	01/04/2019	0.5 Actual
23	01/05/2019	0.6 Actual
24	01/06/2019	1 Actual
25	01/07/2019	1.3 Actual
26	01/08/2019	2.5 Actual
27	01/09/2019	2.1 Estimated
28		
29		



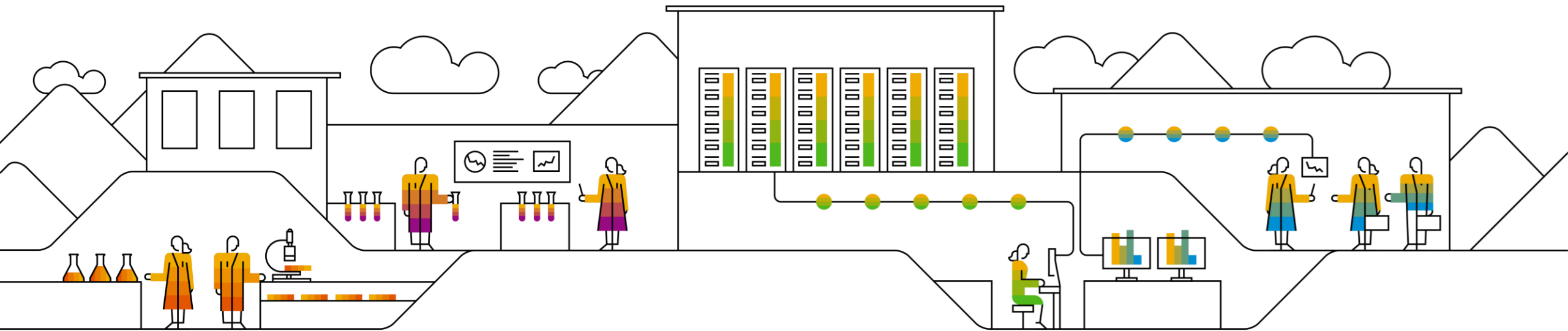
#### Global Account Costs

- Check on Service Plan level aggregated usage
- Cross-check costs on aggregated level with Estimator or for historical prices with price list



#### Subaccount Costs by Service

- Check costs on service plan level by distribute the Global Account Service Plan cost by the actual usage of the Subaccounts
- Charge Subaccount costs to owner like subsidiaries or projects (e.g. cost center, profit center, WBS element, etc.)



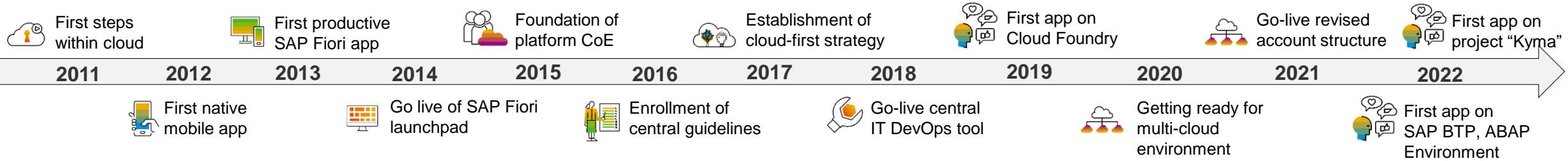
# How SAP IT runs on SAP Business Technology Platform

## Operations & Governance

Jill Egel, SAP SE

PUBLIC

# SAP Business Technology Platform – IT cloud transformation at SAP



## Integrated experience

**Our entire workforce** using our business technology platform on harmonized SAP Fiori apps

**One central entry point** with SAP Fiori launchpad

**One central platform** integrating our hybrid landscape and enabling agile innovation delivery



## Agile delivery

**Hundreds of developers** working on our accounts to deliver and improve internal applications

**Various internal applications** to suit the latest processes and needs

**Daily deployments** in our productive landscapes to implement user feedback and requirements in time



## Nonstop innovation

**Cloud first** with all new apps and enhancements

**Close cooperation** with product teams to charge the platform with new, relevant features

**Constant evaluation** of new cloud offerings to include latest technologies in our solutions

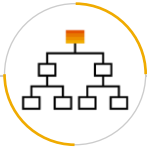


## Large scale

**500+** internal applications  
**400+** developers on our account  
**600+** deployments to production per month  
**100k+** hits per day on SAP Fiori launchpad

# Our offerings

*"SAP IT provides a **stable governance model** and **guided onboarding** for cloud development in SAP BTP to allow developers to concentrate on **value-adding activities**."*



## Documented processes and guidelines

- **Central point** for everyone in IT at SAP who needs to become familiar with **SAP Business Technology Platform** and cloud development
- Communication of **news** and **important updates**



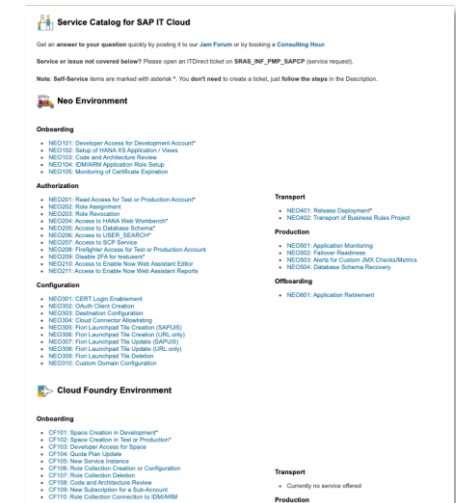
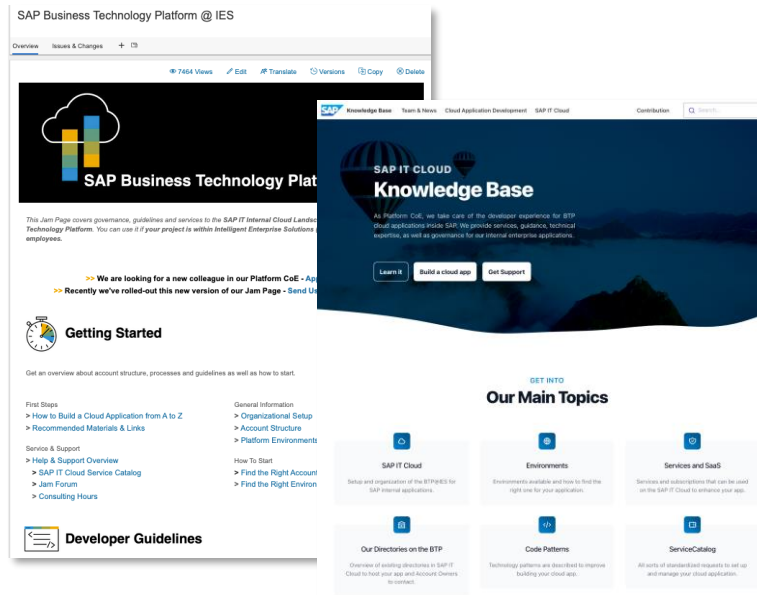
## Developer guidelines and community

- **Development guidelines**, links to self-training materials and reference apps, and offerings of IT-specific classroom training
- **Central forum for questions** (development community in SAP's stack overflow)

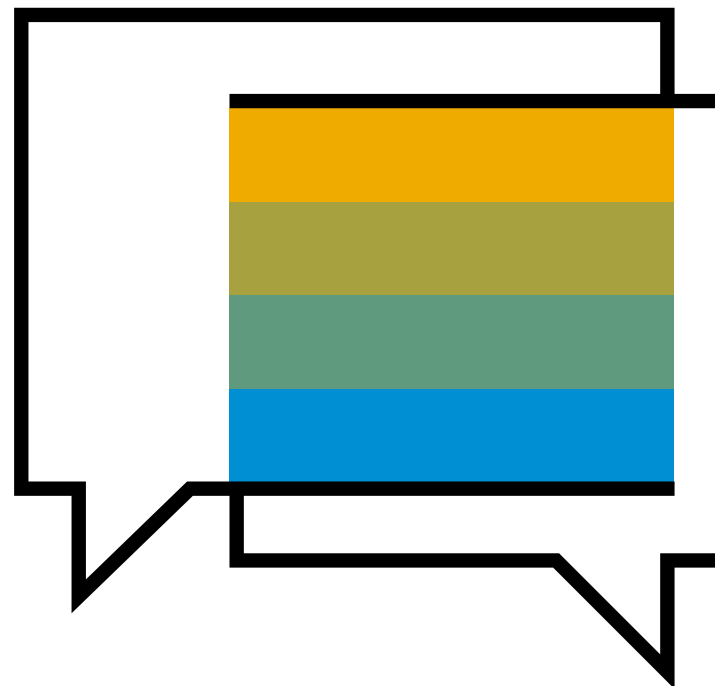


## Centrally provided services

- Automation of and support for projects through a **service catalogue** setup to request developer access, request a new subaccount, or add URL to cloud connector allow-list, among other services
- **Consulting hours**, multiple times a week: Individual "expert talks" to get help on demand
- **Architecture review**: Support of internal development units in the architecture of business applications



**Q & A**



# Want to Try out SAP BTP?

**Sign up** for a PAYG account\* and start today with our free tier service plans!

**Need ideas?** Check out the “Free Tier” missions on [SAP Discovery Center](#)



Access free-tier service plans



Start developing – check out missions



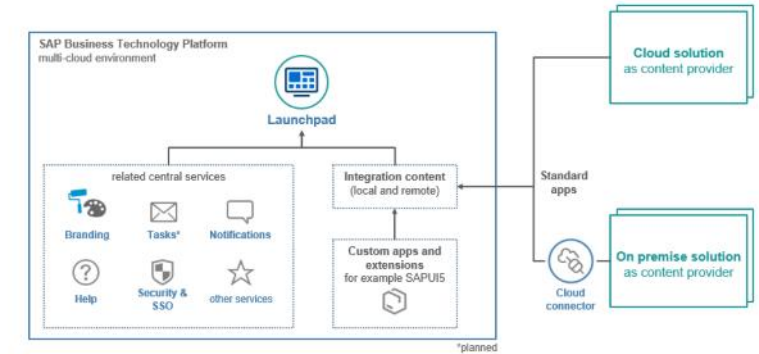
Go productive with a simple upgrade



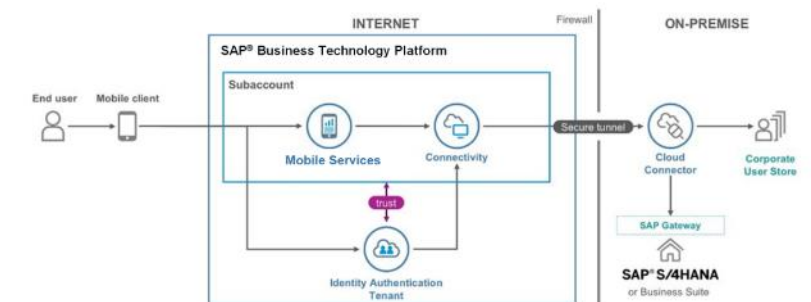
Get support from the entire SAP community

→ [Free tier services](#) → [Free tier missions](#) → [SAP Community for SAP BTP](#)

**Establish a central point of access on SAP Business Technology Platform**  
high-level architecture



**Empower field technicians by building native apps using SDKs**



\* Existing CPEA & PAYG customers have access to free tier service plans

# Additional Resources

BTP Onboarding Webinars: <https://support.sap.com/en/product/onboarding-resource-center/business-technology-platform.html>

SAP Help – Administration and Operations: <https://help.sap.com/docs/btp/sap-business-technology-platform/btp-administration-and-operations>

SAP Help – Getting started on BTP: <https://help.sap.com/docs/btp/sap-business-technology-platform/btp-getting-started>

S/4HANA Extensibility Guide: <https://blogs.sap.com/2022/10/25/new-extensibility-guide-for-s-4hana-is-available/>

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