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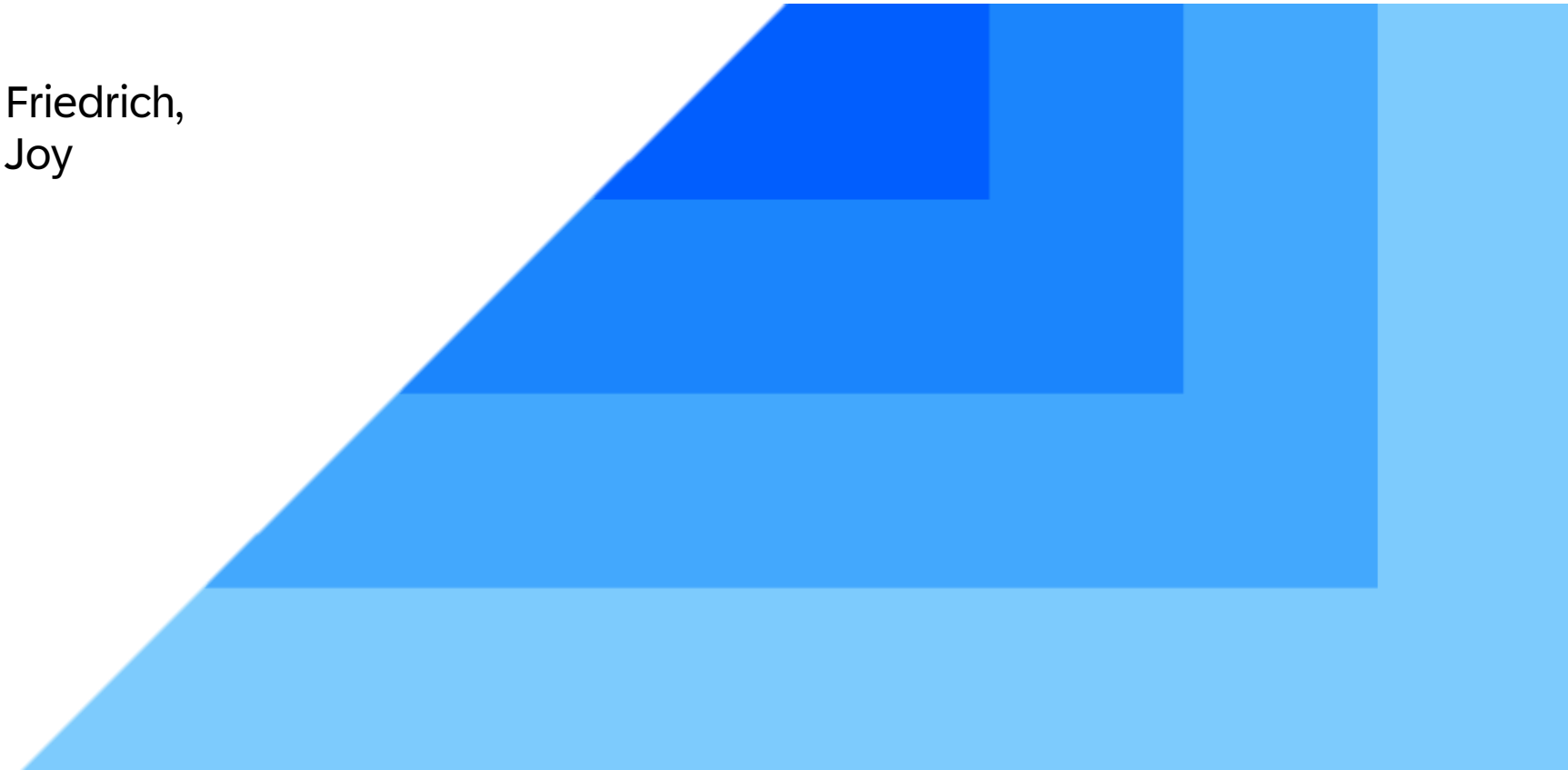
Public

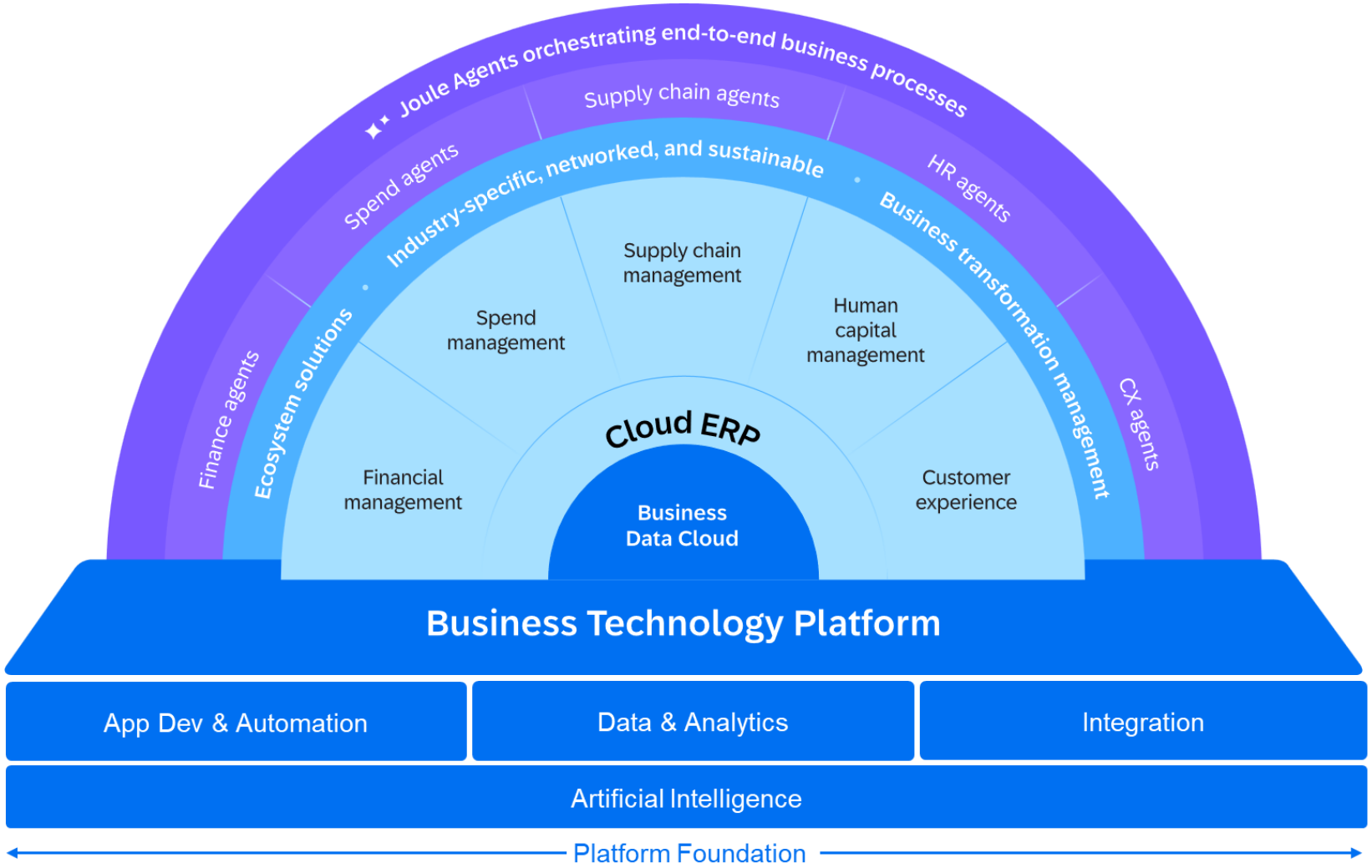
SAP BTP – Platform Foundation

Run secure and enterprise ready

Arne Speck, Boris Zarske, Michael Friedrich,
Joerg Latza, Manol Valchev, Colin Joy



SAP Business Technology Platform



Public

SAP Foundational services

Runtimes & Application Lifecycle Management

Choose the perfect foundation for your development

SAP BTP offers three runtimes: Cloud Foundry providing simple deployment and handling for cloud applications, Kyma for more complex application requirements, and the ABAP Environment to continue existing development efforts.

With integrated DevOps tools as well as openness to leverage existing tools and pipelines, SAP BTP streamlines the application lifecycle to accelerate development, deployment and operations.

Security & Compliance

Securing your business processes and ensuring compliance

SAP BTP ensures top-tier security and compliance with built-in authentication, single sign-on, and strong authorization controls.

It supports global compliance requirements and simplifies audit logging for custom apps, allowing you to focus on development while ensuring data security and compliance.

Persistency

Trust SAP with your data in our persistency services

SAP BTP provides SAP HANA Cloud, a secure, reliable database-as-a-service that combines in-memory database and data lake solution. It handles all data types - structured, unstructured, graph, vector and more - in one platform.

This serves as the optimal foundation for all your applications, data and AI scenarios.

Connectivity

Connect all types of applications

SAP BTP ensures seamless, secure connectivity across hybrid IT landscapes, integrating public cloud, private cloud, and on-prem systems and applications.

This allows you to integrate your existing IT investments without disrupting your core operations.

Administration and operations

Manage your stack

SAP BTP offers comprehensive administration and operations tools for enterprise management, including account control, entitlements, and centralized automation.

This enables proactive management, optimized resource use, and supports enterprise-level governance.

Platform Foundation

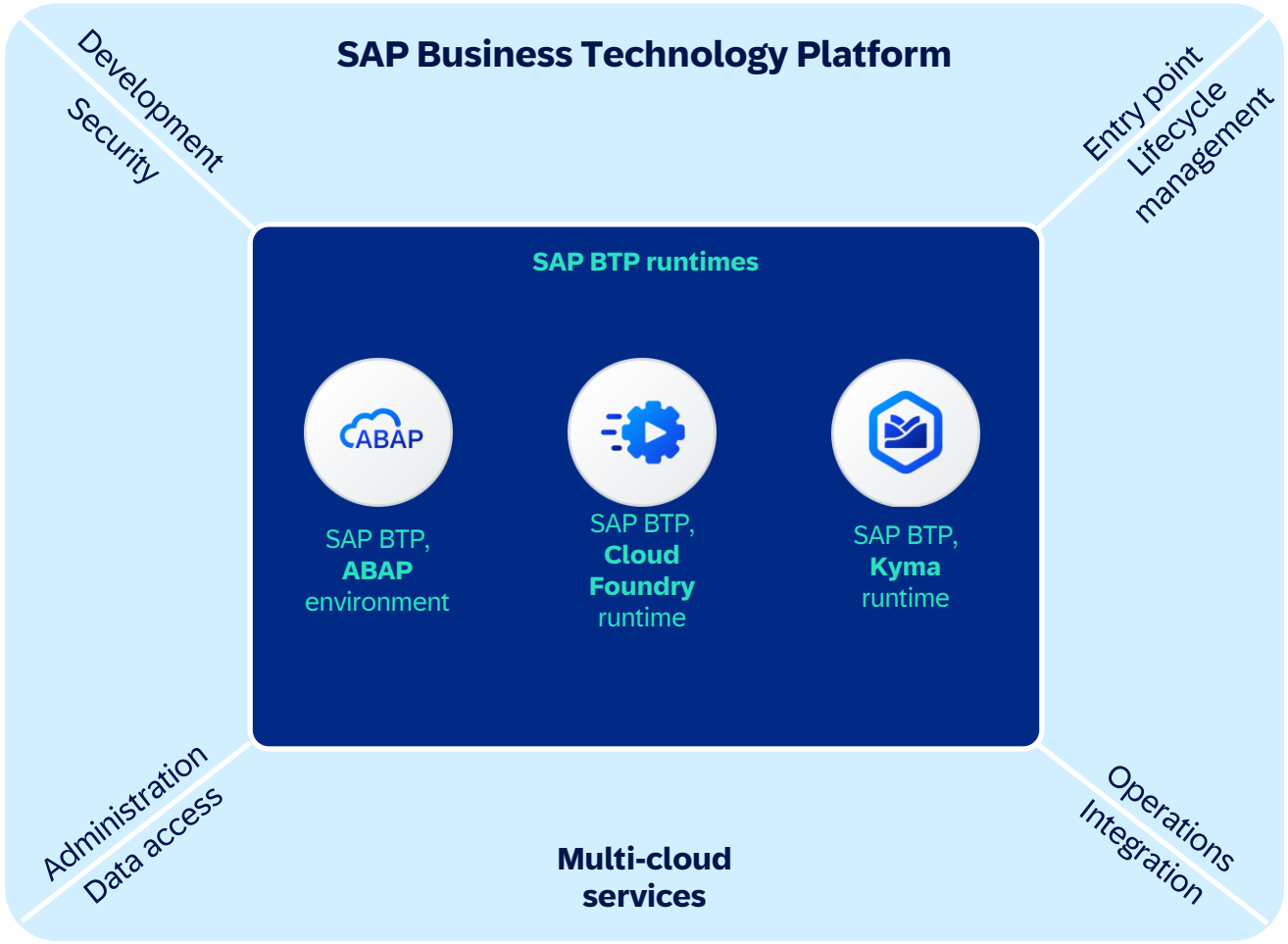
Public

Runtimes & Application Lifecycle Management

Choose the perfect foundation for your development

Arne Speck, Boris Zarske

SAP Business Technology Platform – Recommended development approaches



SAP BTP Developer's Guide

SAP is offering clear development recommendations and guidelines for application and extension development on SAP BTP.

SAP Cloud Application Programming Model and ABAP Cloud model

These models are the basis for these recommendations and guidelines, building on top of the runtimes below.

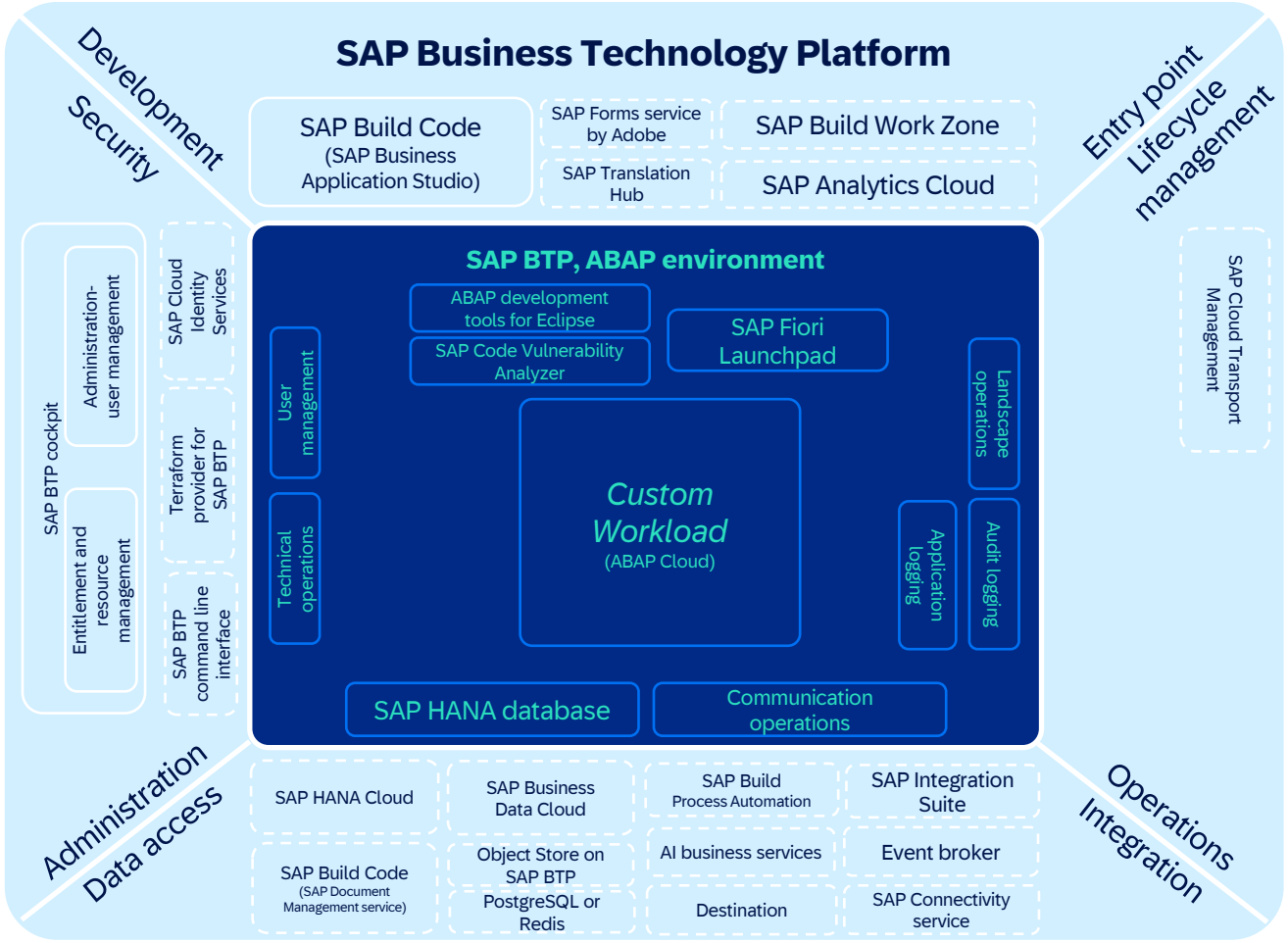
Three strategic SAP BTP runtimes:

- ABAP environment
- Cloud Foundry runtime
- Kyma runtime

SAP BTP Developer's Guide

Public

ABAP development on SAP BTP, ABAP environment



What is it?

- Complete ABAP environment including SAP HANA persistency layer to run and operate ABAP Cloud–based extensions and applications loosely coupled from SAP ERP or SAP S/4HANA (cloud or on premise)

What is it best for?

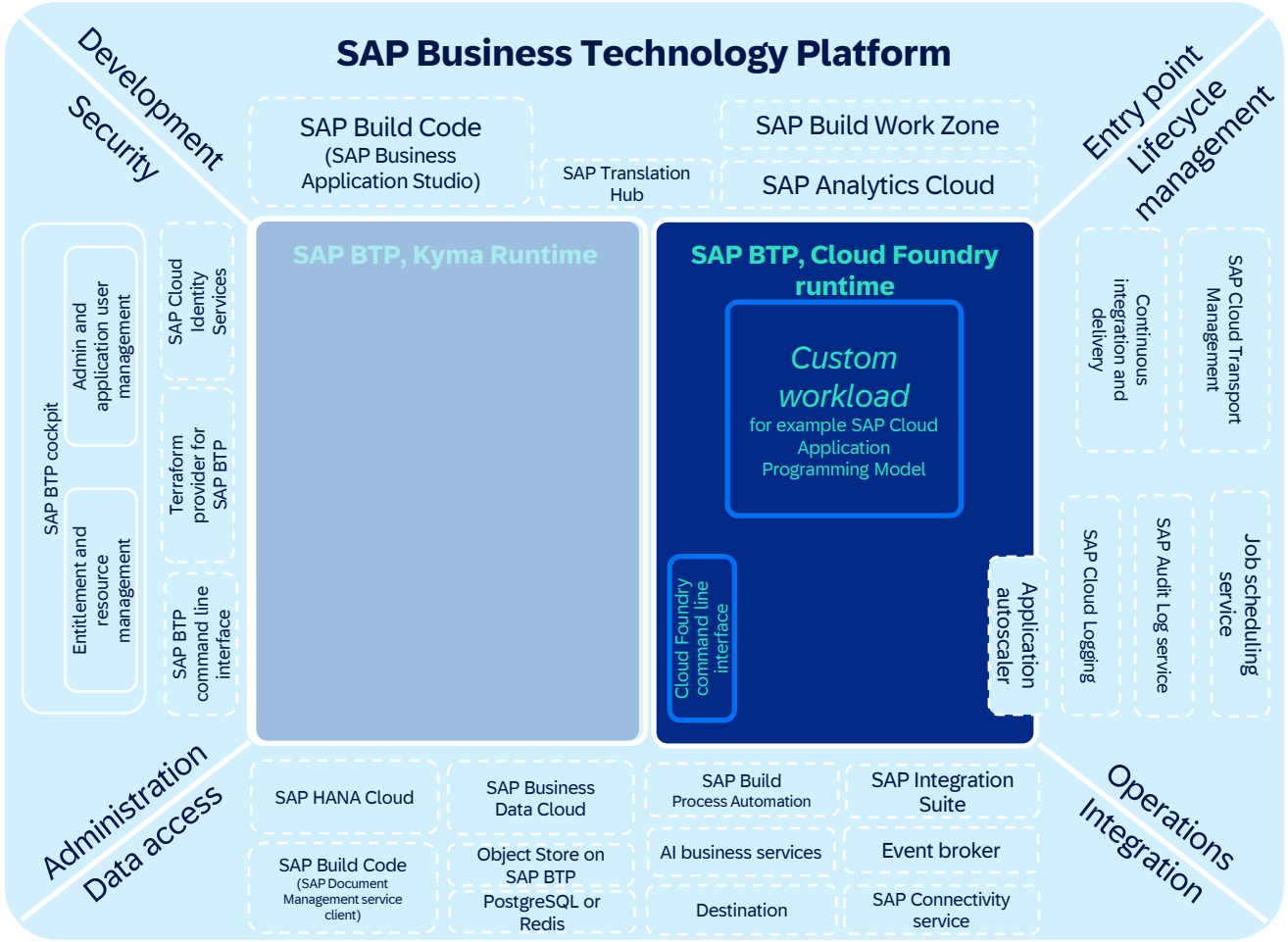
- SAP S/4HANA extensions that require or benefit from loosely coupled nature of extension (but still closely related):
  - Fast-changing and evolving solutions with back-end independent lifecycle requirements
  - Requirements to serve non–SAP S/4HANA or SAP ERP users
  - Scenarios spanning across several SAP S/4HANA or SAP ERP systems (hub scenario)
- Multi-tenancy software-as-a-service applications (especially for SAP partners)

What are the benefits?

- Fully SAP-operated platform with latest ABAP and SAP HANA stacks
- Possibility to leverage ABAP developer community with broad set of business process knowledge
- Possibility to migrate or convert existing ABAP extensions to follow a clean core concept
- Custom code analysis including checks by the SAP Code Vulnerability Analyzer tool
- Simple consumption of and integration into SAP BTP multi-cloud service portfolio

Public

Cloud-native development, Option I – SAP BTP, Cloud Foundry runtime



Click for runtime guide

What is it?

- Runtime to run polyglot cloud-native applications on SAP BTP
- Based on the highly efficient, open-source Cloud Foundry platform for cloud-native application development
- Support for the top programming languages and developer frameworks, like SAP Cloud Application Programming Model, to support the development of business application extensions

What is it best for?

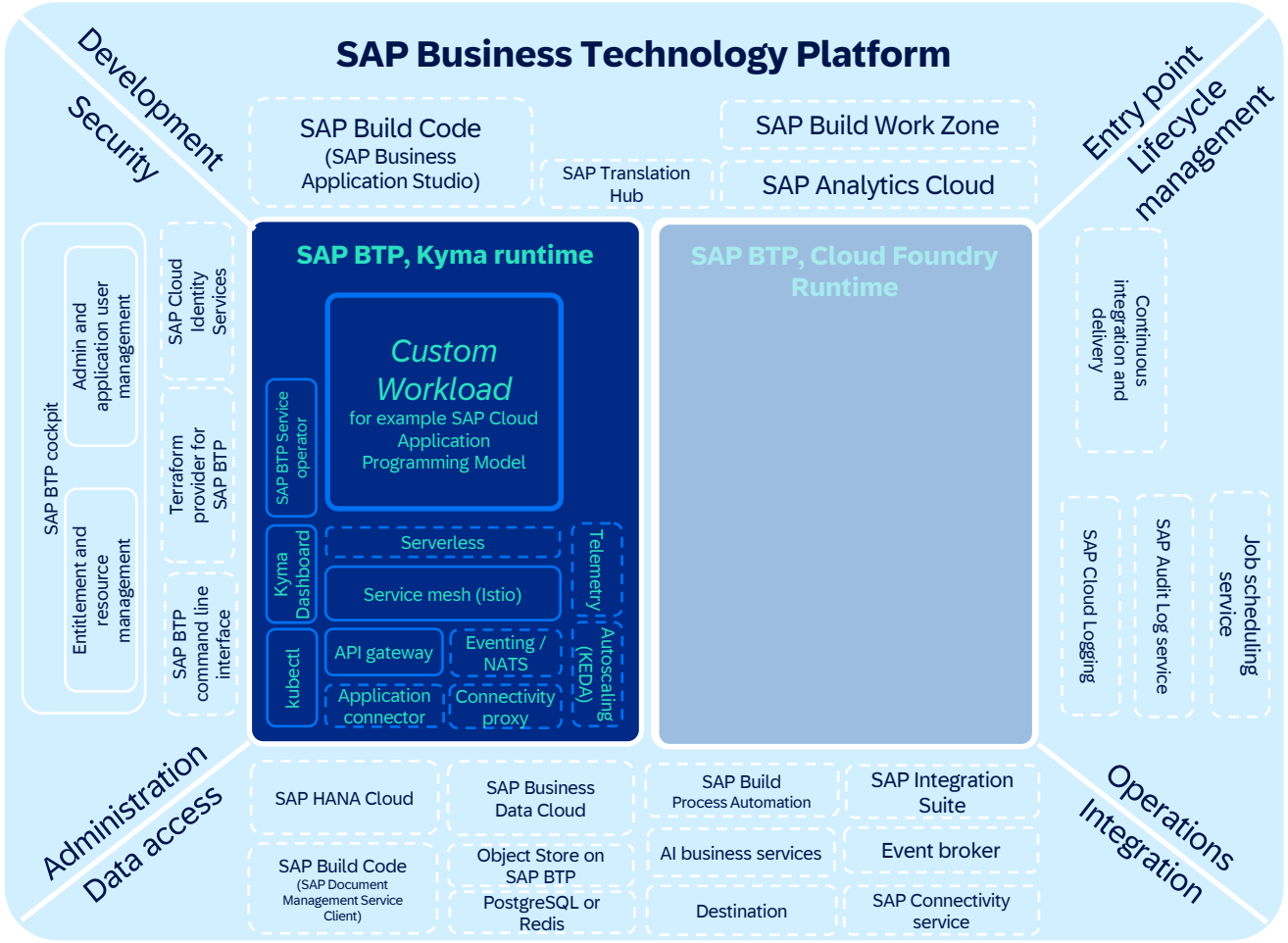
- Loosely coupled SAP business application extensions and less complex business applications integrating modern technologies, languages, and frameworks
- Focus on development of business scenario rather than having to deal with technical details and configuration of runtime

What are the benefits?

- User-friendly and intuitive to operate; no runtime technology knowledge required
- Language independent (Java, Node.JS, Python fully supported by SAP)
- Fully compatible with SAP Cloud Application Programming Model (Java, Node.JS)
- Simple consumption of and integration into SAP BTP multi-cloud service portfolio

Public

Cloud-native development, Option II – SAP BTP, Kyma runtime



Click for runtime guide

What is it?

- Kubernetes-based application runtime including all necessary capabilities to simplify the development and run cloud-native applications
- SAP-managed powerful open-source Kyma stack based on modular building blocks
- Support for the top programming languages and developer frameworks, like SAP Cloud Application Programming Model, to support the development of business application extensions

What is it best for?

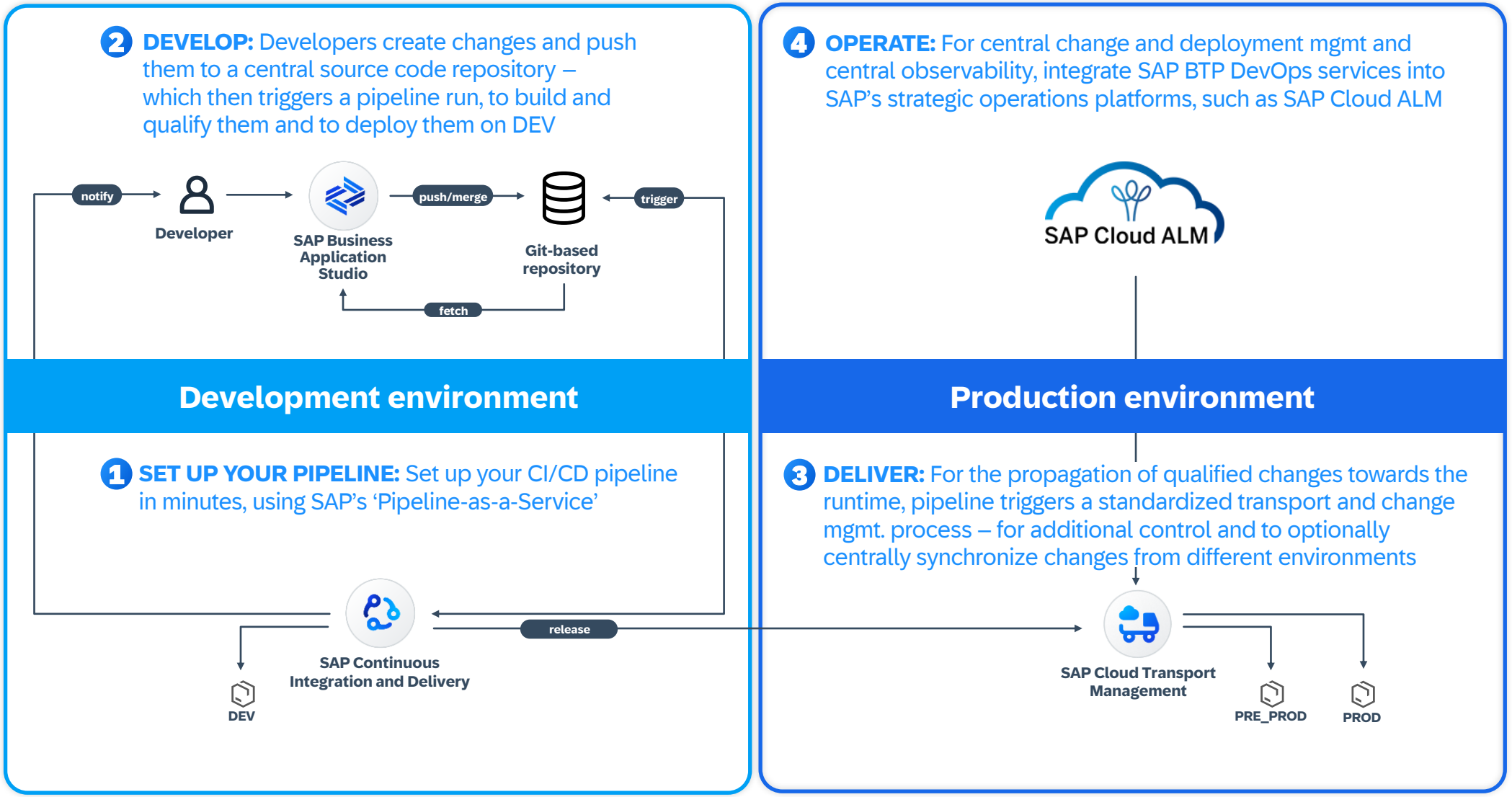
- Best suited for complex business applications and SAP business application extensions with enhanced runtime requirements (such as for scaling, orchestration, access to heavy machinery, or in-cluster functionality)
- Development of microservices-based and serverless solutions
- Cost-efficient operations of large number of applications or extensions

What are the benefits?

- Fully modularized SAP-managed Kyma stack while offering intuitive access to advanced Kubernetes feature set
- Language independent (Node.JS and Python for serverless functions)
- Fully compatible with SAP Cloud Application Programming Model (Java, Node.JS)
- Simple consumption of and integration into SAP BTP multi-cloud service portfolio

Public

Integrated DevOps tools for guided development with built-in governance



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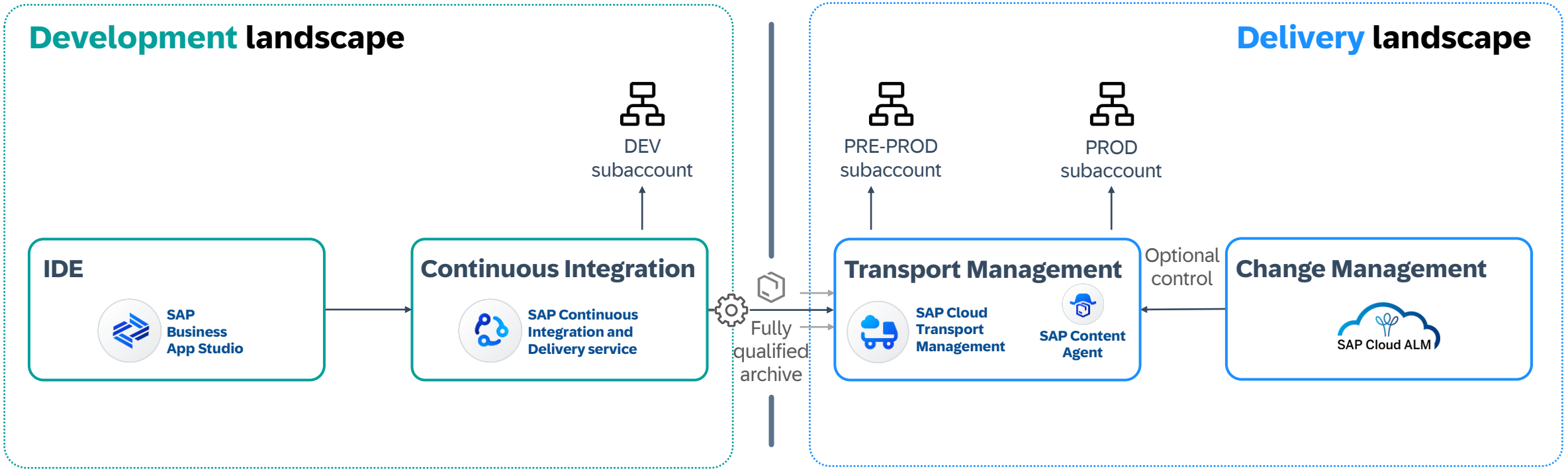
Principle of additional control for delivery towards production

- Based on *Continuous Integration* principles (pipeline, tight feedback loop)
- Managed & owned by local DevOps team
- Verification of single developer change
- Typically fully automated

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



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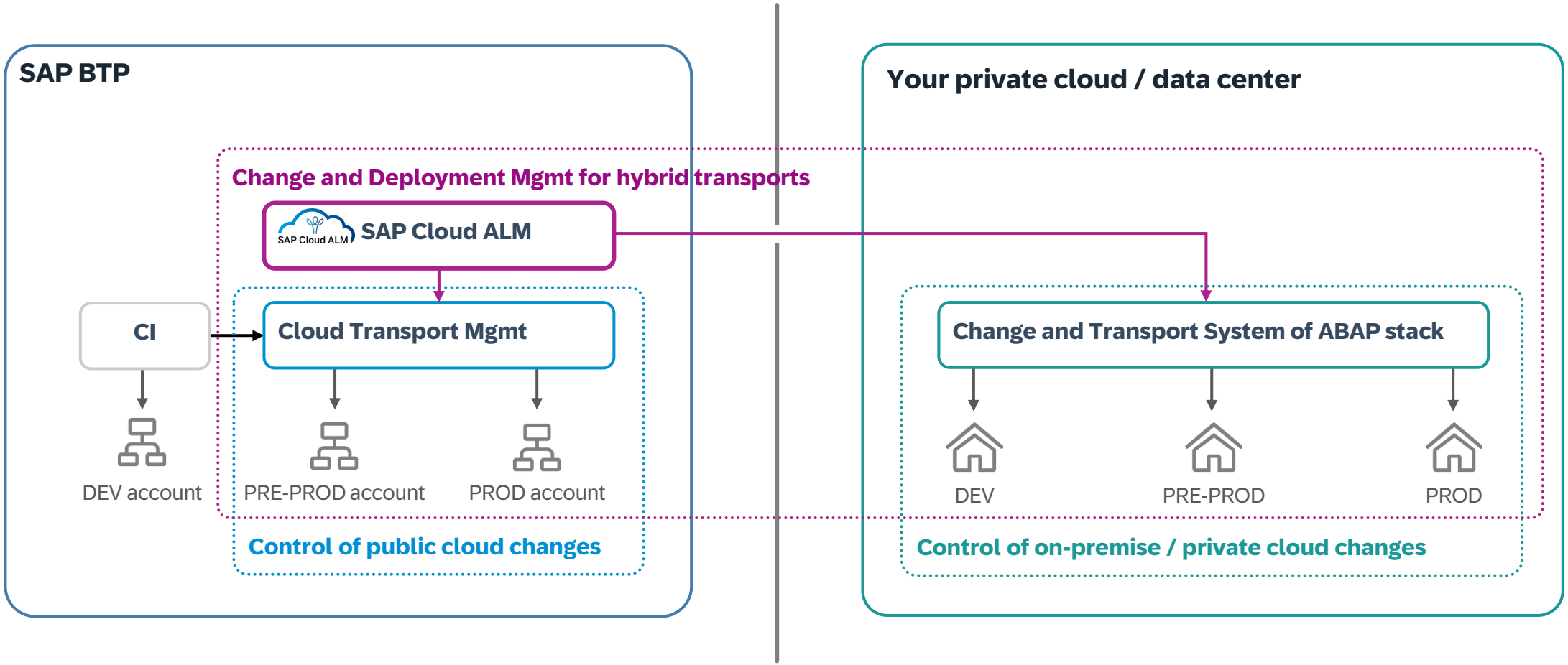
Deliver your hybrid changes toward production – with SAP Cloud ALM



Public

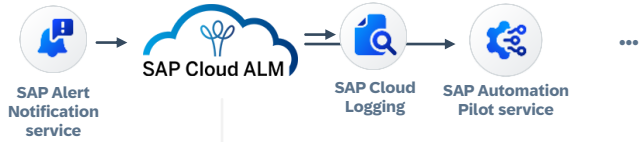
Integrated DevOps tools for guided development with built-in governance

2 DEVELOP: Developers create changes and push them to a central source code repository – which then triggers a pipeline run, to build and qualify them and to deploy them on DEV

Development environment

1 SET UP YOUR PIPELINE: Set up your CI/CD pipeline in minutes, using SAP's 'Pipeline-as-a-Service'

4 OPERATE: For central change and deployment mgmt and central observability, integrate SAP BTP DevOps services into SAP's strategic operations platforms, such as SAP Cloud ALM



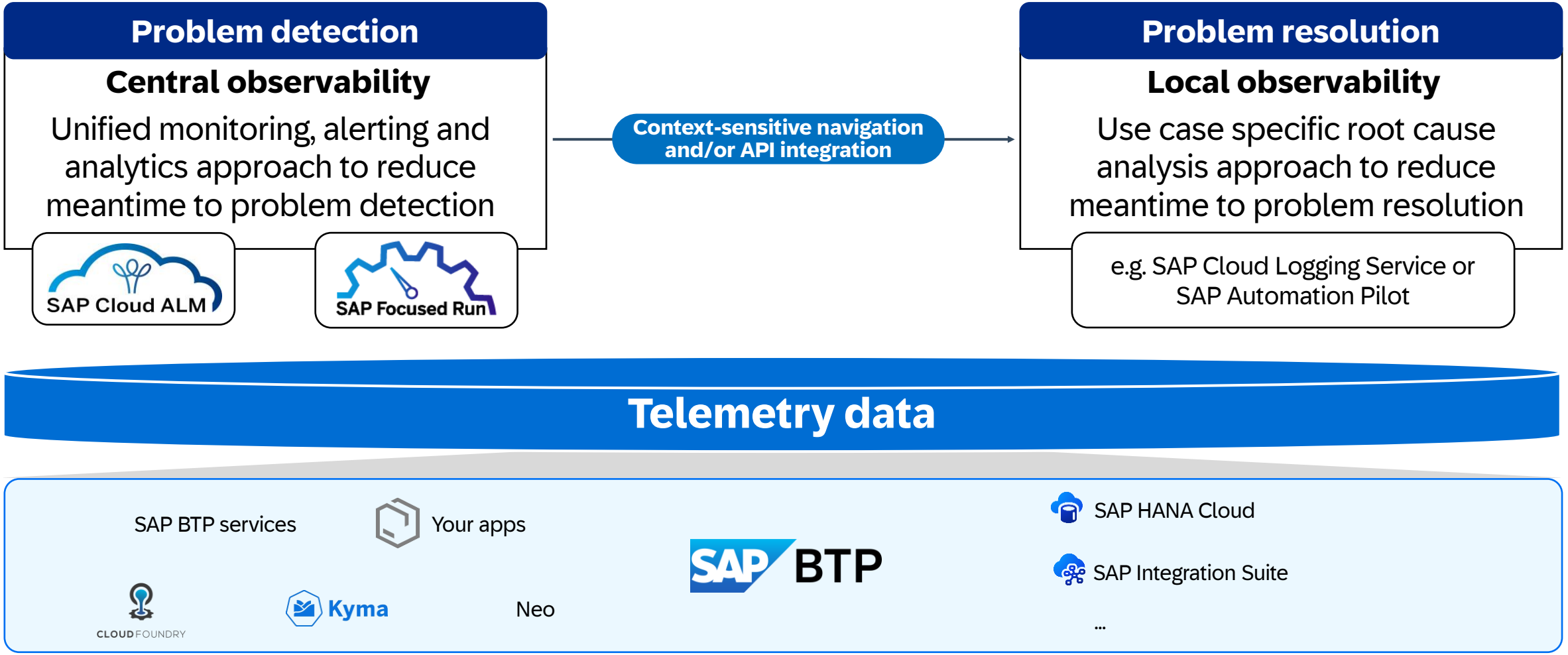
Use then those local observability services, such as by subscribing to events from relevant third-party event providers and by analyzing log data; reduce manual efforts by automating technical operation tasks

Production environment

3 DELIVER: For the propagation of qualified changes towards the runtime, pipeline triggers a standardized transport and change mgmt. process – for additional control and to optionally centrally synchronize changes from different environments

Public

Problem detection & problem resolution for your apps on SAP BTP



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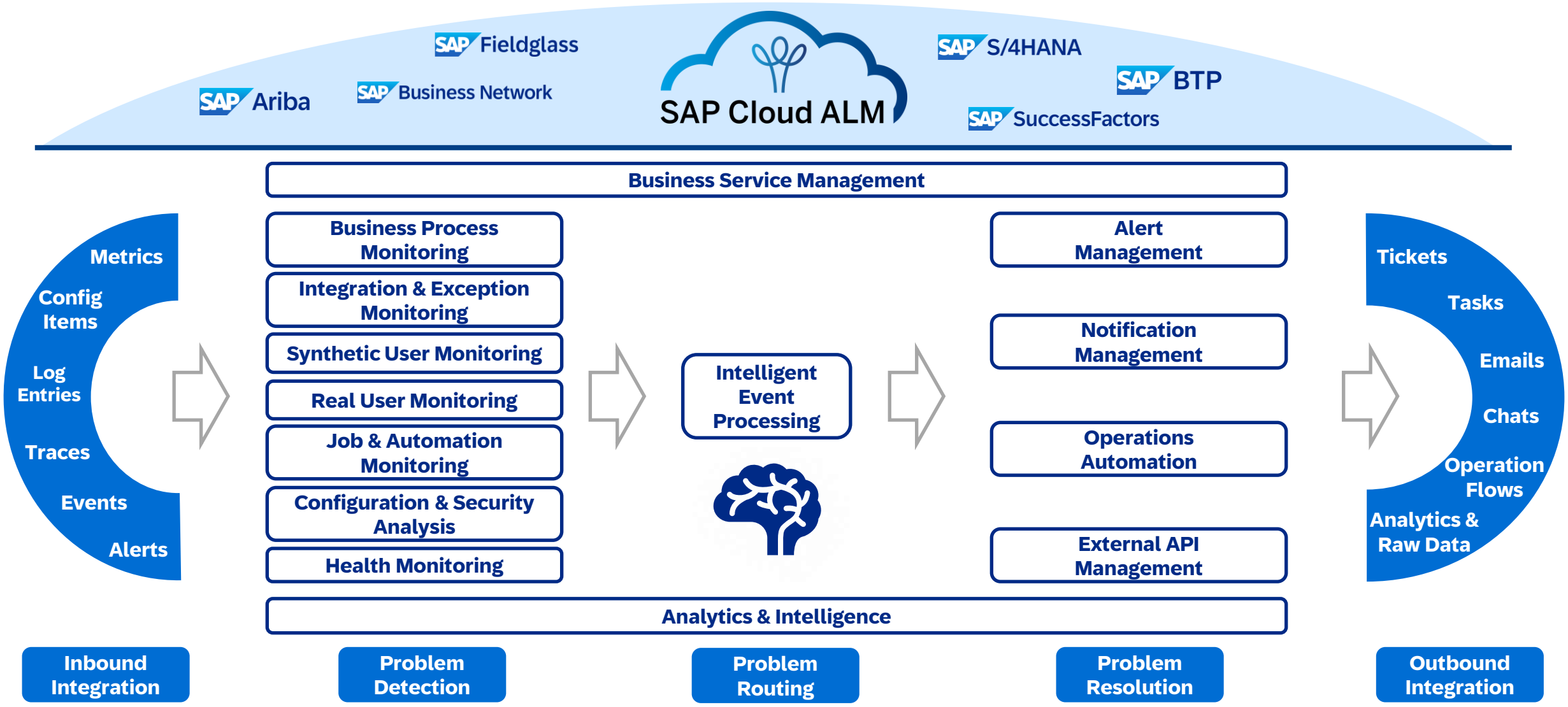
SAP Cloud ALM for Operations



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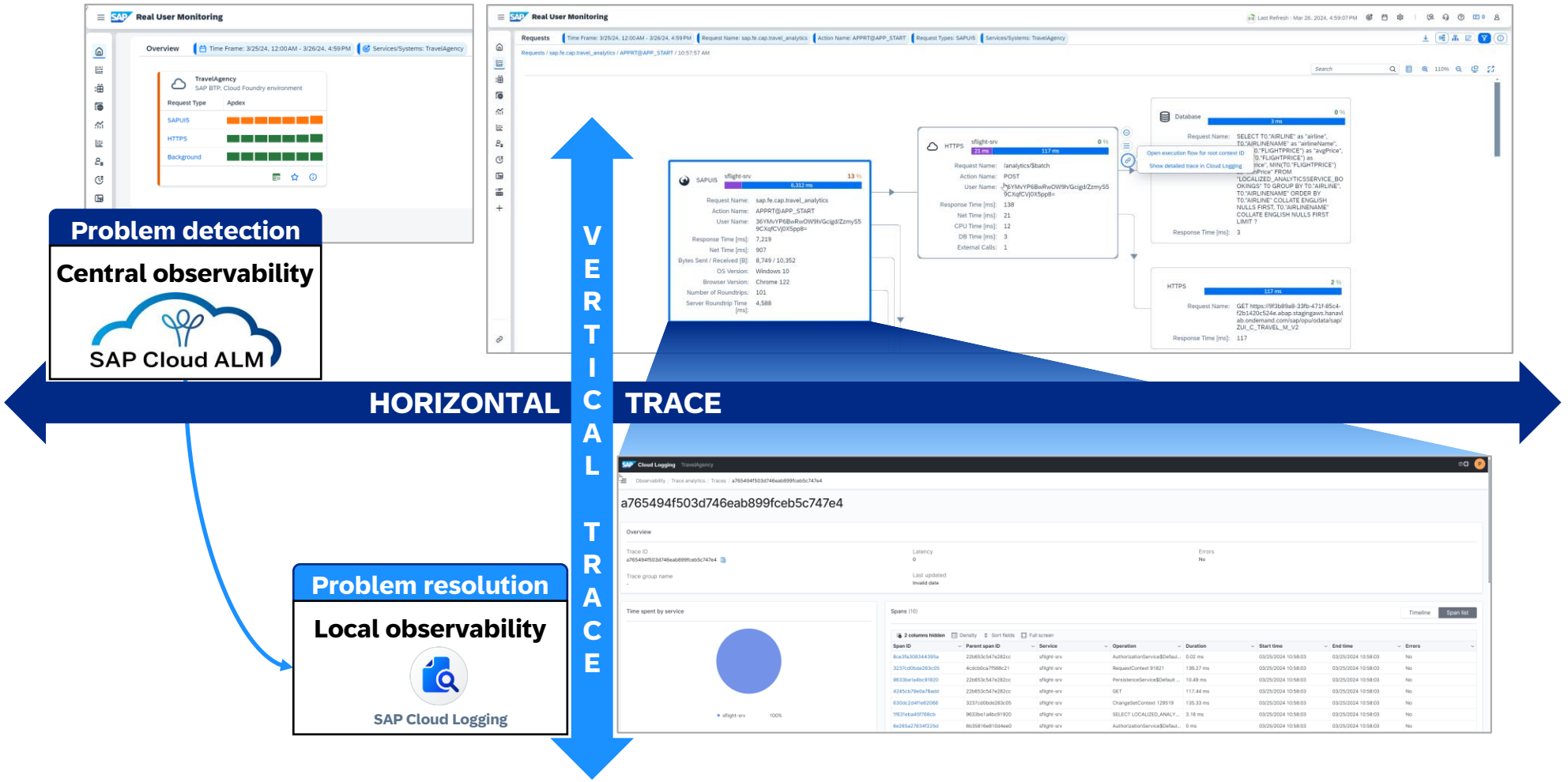
4. Operations: Real User Monitoring for custom apps built on SAP BTP



Public

Security & Compliance

Securing your business processes and ensuring compliance

Michael Friedrich

SAP Business Technology Platform – Security

Platform security

- SAP BTP is developed securely with built-in, comprehensive **security features and privacy capabilities**.
- Use the **services for security with SAP BTP** to support the security policies of your organization, such as authentication, identity lifecycle, authorization, connectivity, data protection, and privacy.

pages.community.sap.com/topics/btp-security

Compliance

- Services for SAP BTP and the underlying infrastructure hold various **certifications and attestations**.
- SAP BTP offers a security foundation that helps ensure your organization acts in accordance with **security requirements based on laws, regulations, industry standards, and your policies**.

www.sap.com/about/trust-center/certification-compliance.html

Guidance

- **Security recommendations** through SAP BTP enable you to secure the configuration and operation of SAP BTP services in your landscape.
- The first services are already Integrated with the SAP Cloud ALM solution – configuration and security analysis.

http://help.sap.com/docs/btp/sap-btp-security-recommendations

Public

SAP Business Technology Platform – Security and compliance services

Secure user access and permissions

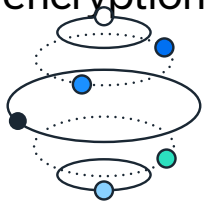
SAP Cloud Identity Services are the default services for authenticating and provisioning users in cloud solutions.

SAP Cloud Identity

- Identity Authentication
- Identity Provisioning
- Identity Directory
- Authorization Management

- Authorization and Trust Management
- Customer Data Cloud

Secure connectivity, communication, and encryption



Provide secure connectivity to cloud and on-premise solutions and securely store destinations and other credentials

- SAP Custom Domain service
- SAP Credential Store
- Malware Scanning

Connectivity

- SAP Connectivity service
- SAP Destination service
- Cloud connector
- Private Link

Compliance services

Help ensure compliance for data and audit trail

- SAP Audit Log service
- SAP Data Privacy Integration

Public

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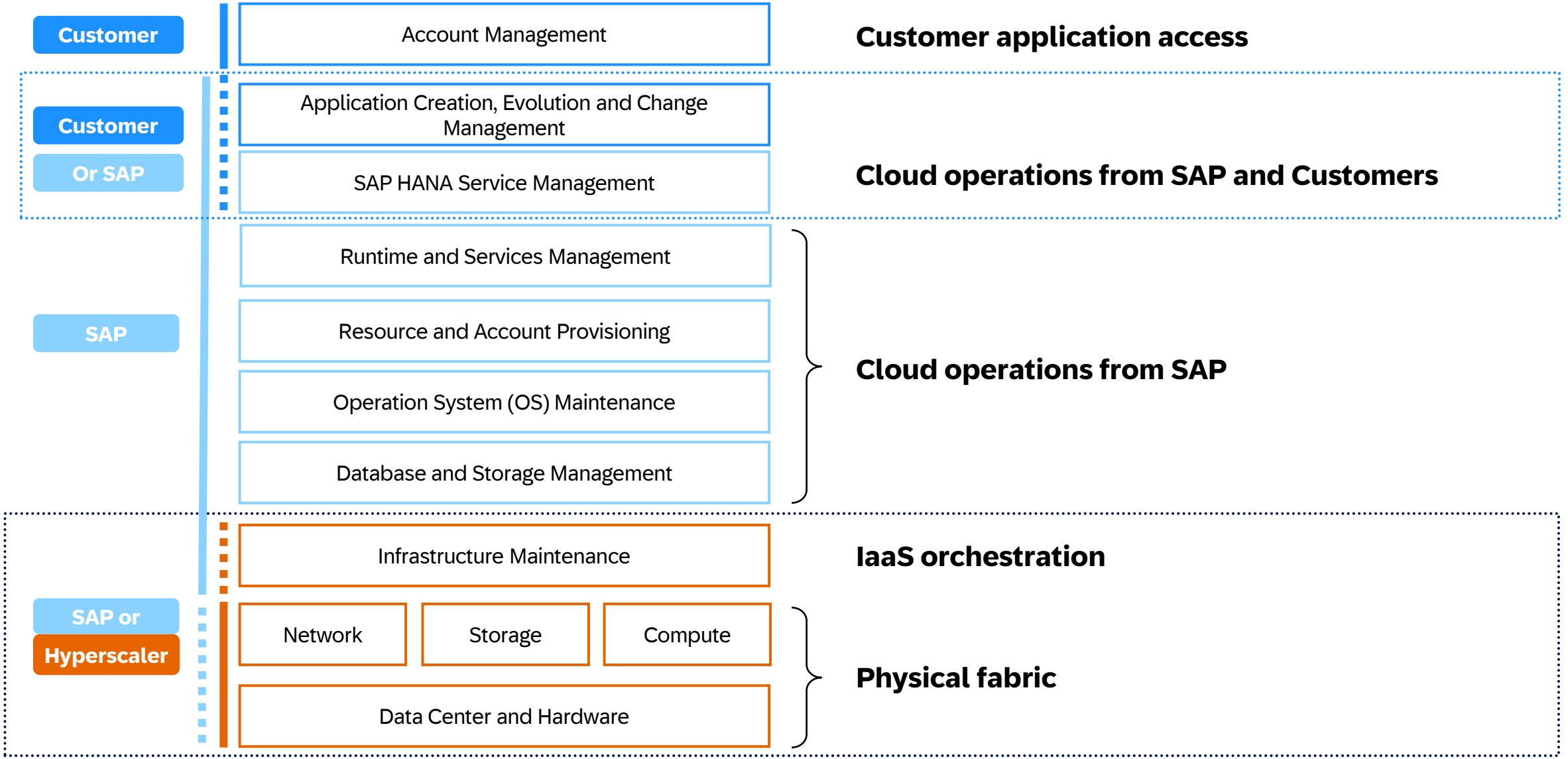
SAP BTP shared responsibility model



Shared Responsibility Model Between You and SAP

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SAP Business Technology Platform – Security

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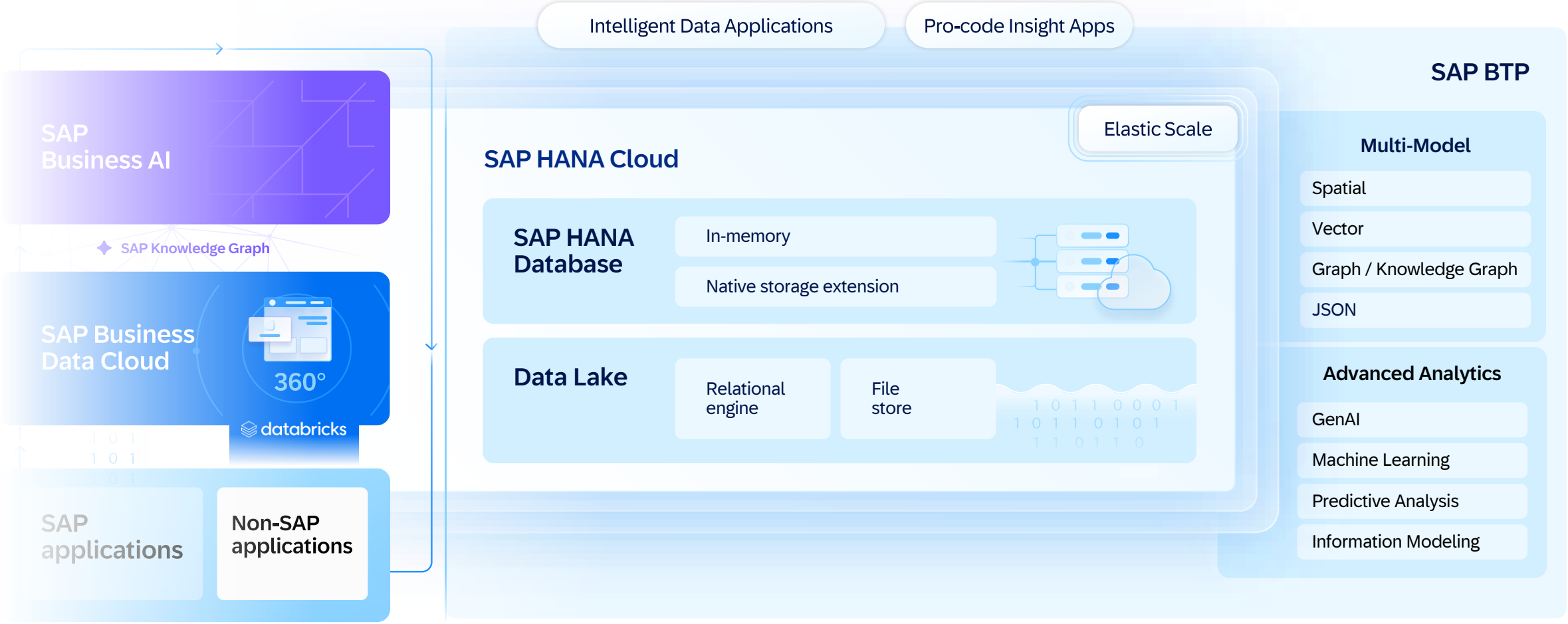
Persistency

Trust SAP with your data in our persistency services

Joerg Latza

SAP HANA Cloud



SAP HANA Cloud is the de-facto and strategic cloud DBaaS and persistency for SAP Applications & Services and Intelligent Data Applications with the objective to maximize consumption, customer satisfaction, revenue, and margin

Enterprise data adds intelligence to every application

Interact Naturally

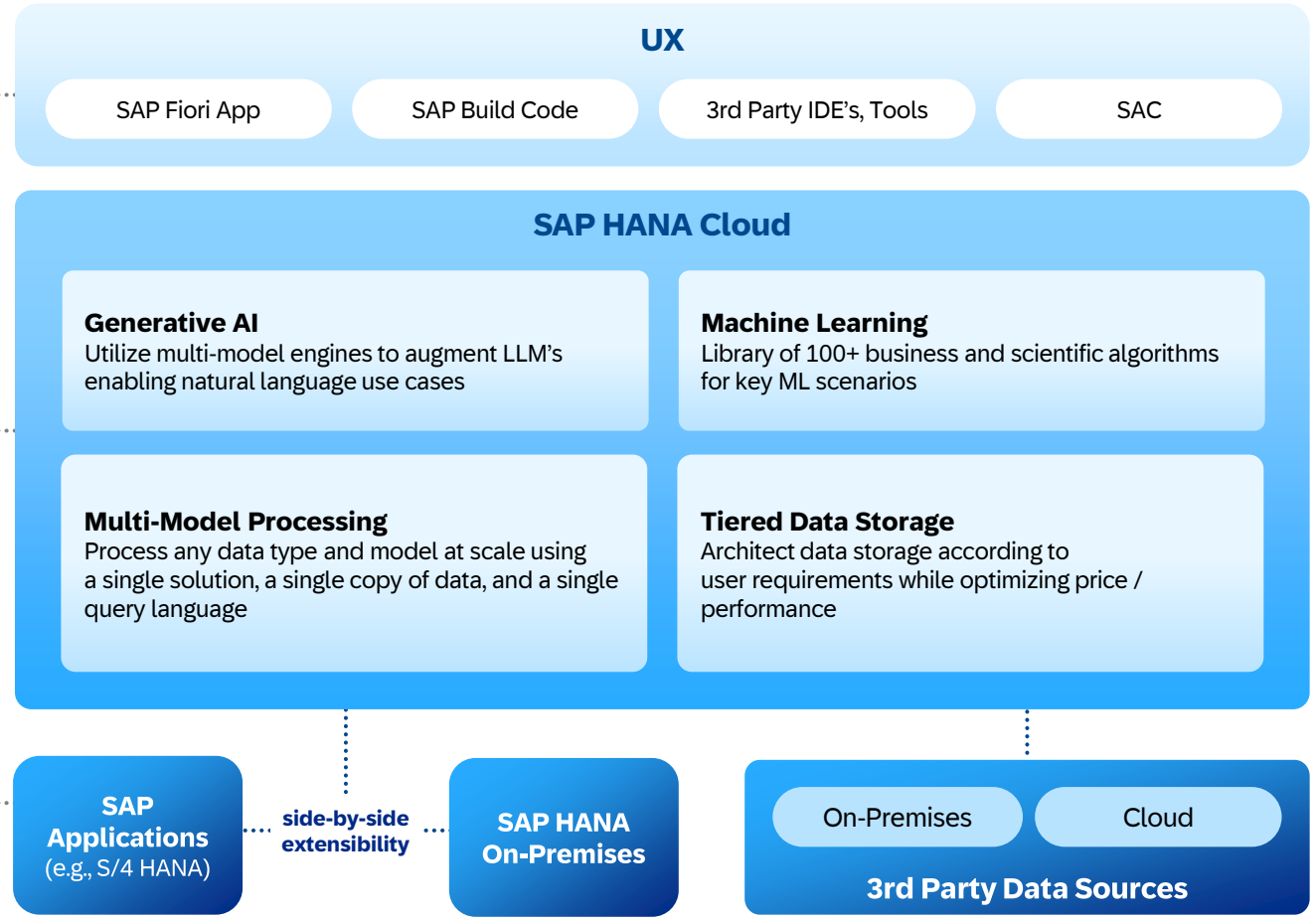
Transform the decision-making process and optimize business operations

Understanding & Intuition

Create context-aware applications infused with generative AI, machine learning, and multi-model processing

Gather Knowledge

Securely ingest, blend and store any data type or model from SAP and/or 3rd party sources – maximize value by making all data available to cloud applications



SAP HANA Cloud | Strategic key priorities

Smooth migration

- Online migration
- Design-time object migration
- Intelligent migration assistant

Developer efficiency

- No-code development
- Intelligent text-to-SQL generator
- Generative AI toolkit for SAP Build Code

Price performance

- Cost allocation framework
- Elastic compute nodes
- Native multitenancy

Automation and intelligence

- Intelligent system health optimization
- AI-based performance tuning
- Advanced automation pilot integration

Advanced analytics

- Segmented, automated machine learning
- Generative AI data science workbench
- Native knowledge graph capability

SAP Road Map Explorer tool

Connectivity

Connect all types of applications

Manol Valchev

SAP Destination Service

An integral part of SAP BTP Connectivity

Secure, flexible and centralized technical connection configuration management via key entities

- *destinations* – key-value parameters holding information about technically accessing the remote system – protocol, host, port, credentials, etc.
- *destination fragments* – partial configurations
- *certificates* – multiple file and keystore formats

Self-service for issuing X.509 client certificates part of SAP Cloud PKI.

Multiple storage levels and scopes of visibility.

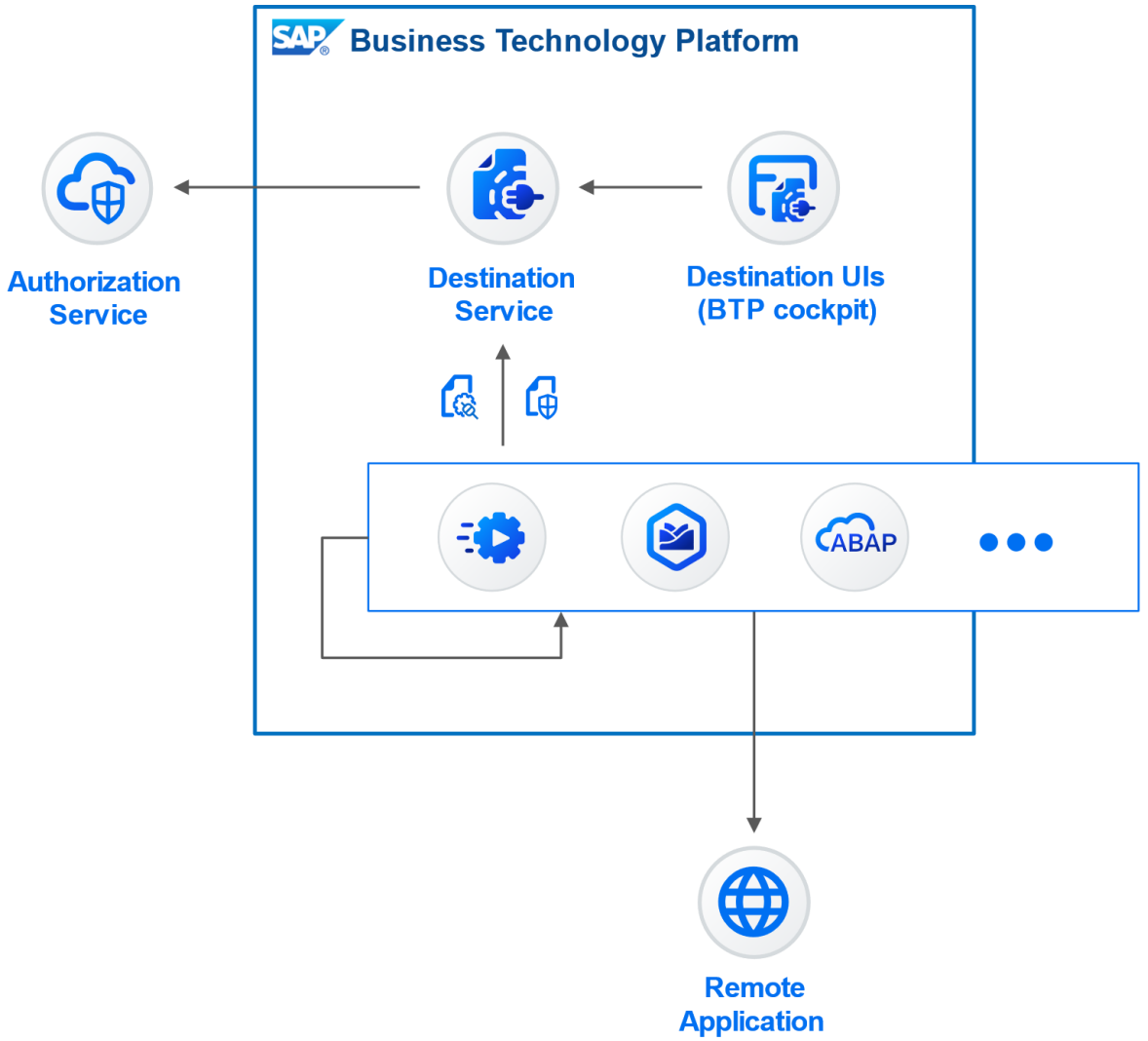
Administration via BTP cockpit and REST API.

Programatic runtime access via REST API:

- tenant-specific destination look-up
- automated access token retrieval

Multi-tenant, cross-environment service consumption.

Simplified consumption via **Transparent Proxy** and **Cloud SDK**.



Documentation: https://help.sap.com/docs/CP_CONNECTIVITY

SAP Connectivity Service

An integral part of SAP BTP Connectivity

Secure technical connectivity between cloud applications and such hosted in private, fenced network environments.

BTP environment-native and Hyperscaler-agnostic solution.

Communication protocol-specific processing, enforcement of **access controls**, **auditing** and **monitoring**.

Multiple communication protocols:

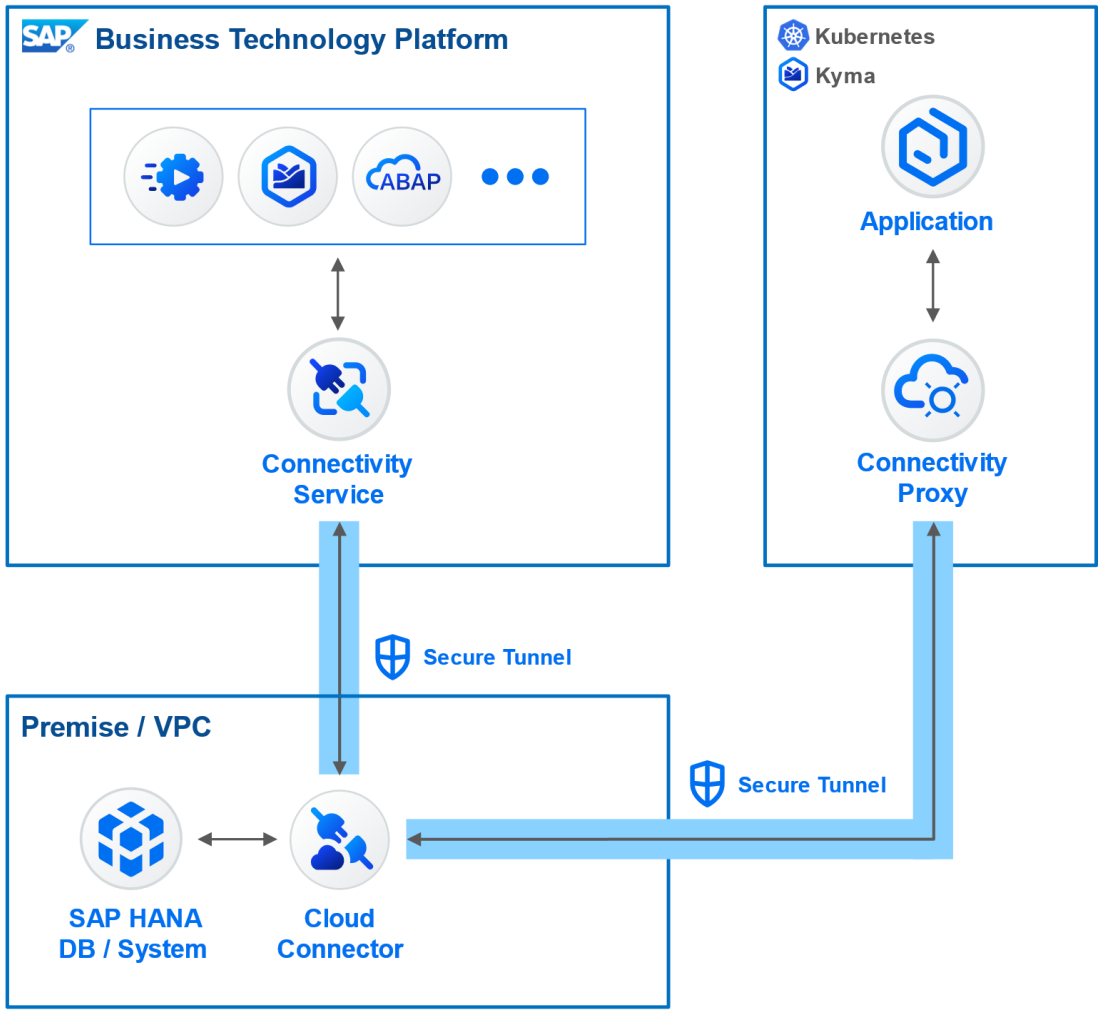
- *HTTP, RFC, LDAP* – protocol-specific processing
- *TCP* – generic data transfer of any TCP-based protocol

BTP-native runtime consumption via

- **destinations** with ProxyType=On-Premise
- **Transparent Proxy** as main entry point for virtually transparent, unified connectivity experience

Connectivity Proxy as Kyma Module

- *enable* → *configure* → *use*. Supportability SLAs by SAP.



Documentation: https://help.sap.com/docs/CP_CONNECTIVITY

Public

Transparent Proxy as the main entry point

An integral part of SAP BTP Connectivity

The entry point at runtime for applications and services to leverage the features and capabilities of SAP BTP Connectivity.

Virtually transparent, unified connectivity to any remote target application modelled as a destination in SAP Destination Service.

- Local access to the remote applications via Kubernetes Services
- Transparent Proxy takes care of client authorization, mTLS, SOCKS5, principal propagation, etc.

Native integration with SAP Destination service and SAP Connectivity service

- Auto-wiring with Connectivity Proxy Kyma Module
- Automated SOCKS5 handshake with Connectivity Proxy

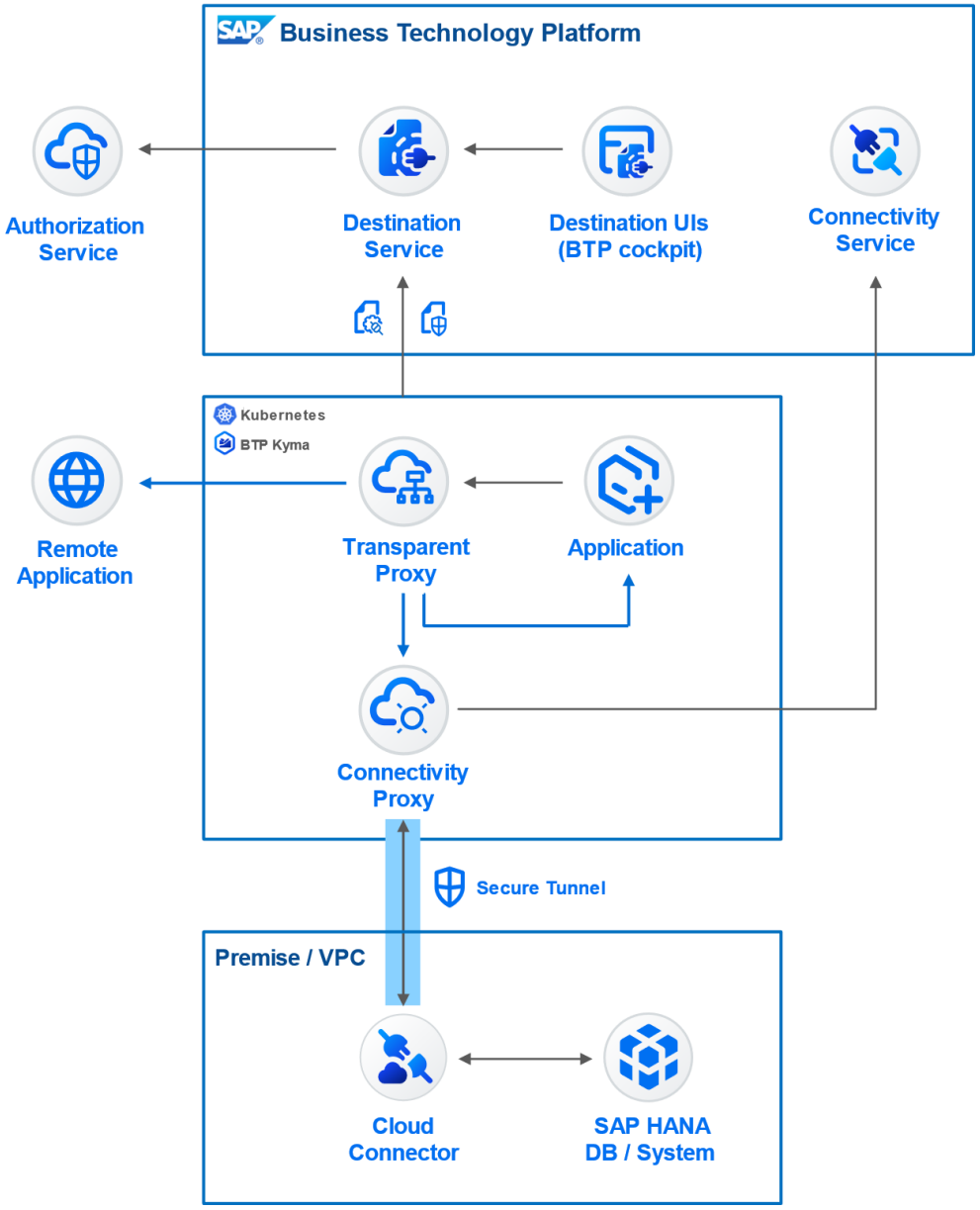
Transparent Proxy as Kyma Module

- *enable* → *configure* → *use*. Supportability SLAs by SAP.

Custom deployment on Kubernetes. Lifecycle management via Operator and Helm.

Enterprise readyness – multi-tenant, resilient, highly available.

Automated scaling based on Kubernetes HPA.



Documentation: https://help.sap.com/docs/CP_CONNECTIVITY

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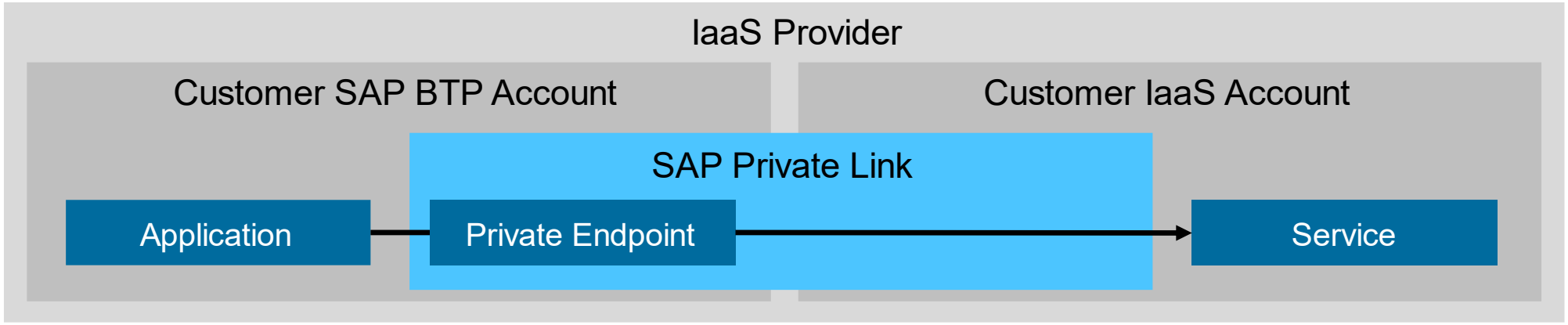
SAP Private Link Service



- Establishes a private connection between selected SAP BTP services and selected services in IaaS provider accounts
- Traffic remains within the Hyperscaler's secure network and does not reach public Internet.
- Azure and aws as supported IaaS providers.
- Available on and SAP BTP runtimes.

Documentation: https://help.sap.com/docs/private-link

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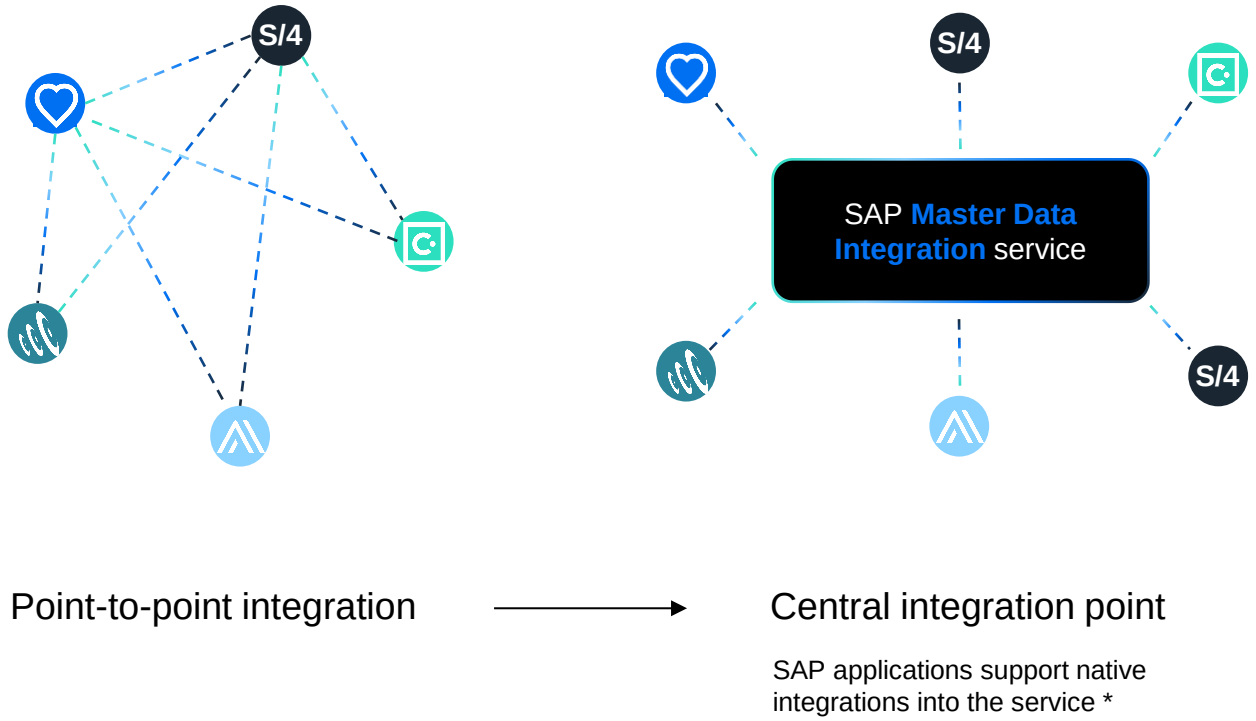
SAP Master Data Integration

Help business applications to arrive at a consistent view on master data

SAP Master Data Integration



Point-to-point integration → Central integration point

SAP applications support native integrations into the service *

- **SAP Master Data Integration service** provides a **consistent view on master data** across a hybrid customer landscape
- **SAP One Domain Model** is used as the basis across the integrations of various SAP applications which **makes data mapping obsolete**.
- **Initial load** to optimize **time-to-value**, due to data persistency
- **Filtering capabilities** to define replication according to **business process needs** per master data object and application
- **Extensibility** capabilities to extend the SAP One Domain Model **with customer specific fields**
- **Key mapping** to share and receive information on **application-local IDs**

* Not existing for all applications and all master data object types. Visit help.sap.com/docs/master-data-integration to see the latest support of native integrations into the service.

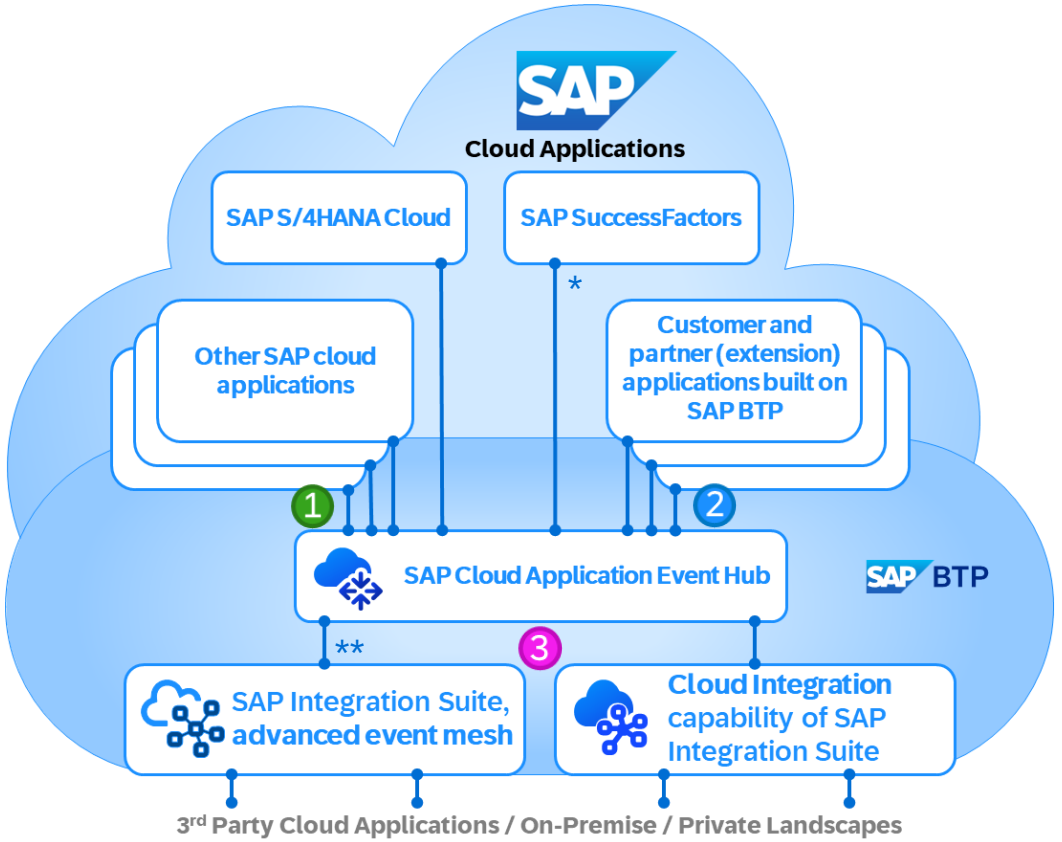
Public

SAP Cloud Application Event Hub

1. **Pre-built event-based integration between SAP cloud applications** for easy and error-free event distribution between SAP cloud applications.

2. **Customer and partner (extension) applications built on SAP BTP** can use SAP Cloud Application Event Hub for event-based integration with SAP cloud applications to achieve real-time integration while adhering to the clean core concept.
   - For a deeper look into extension application scenario: Devtoberfest - Use SAP Cloud Application Event Hub to consume business events in a CAP application

3. **Exchange events with SAP Integration Suite EDA and mediation offerings for 3rd party and on-premise integration.** SAP Cloud Application Event Hub provides a central access point for business events from SAP cloud applications.
   - SAP Tech Bytes: SAP S/4HANA Cloud events to SAP Cloud Integration via SAP Cloud Application Event Hub



* Early Adopter Care Program, see Customer Community post
** Planned innovation

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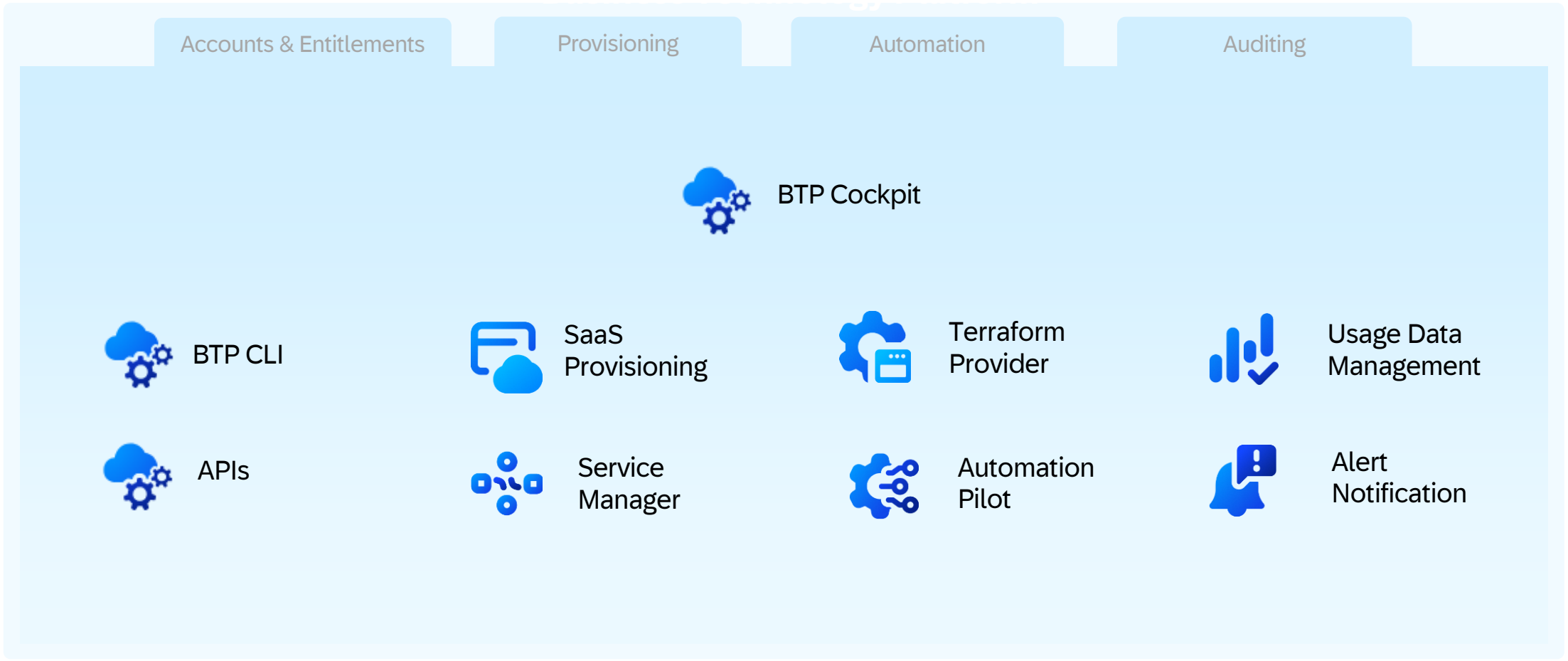
Administration and operations

Manage your stack

Colin Joy

Administration & Operations



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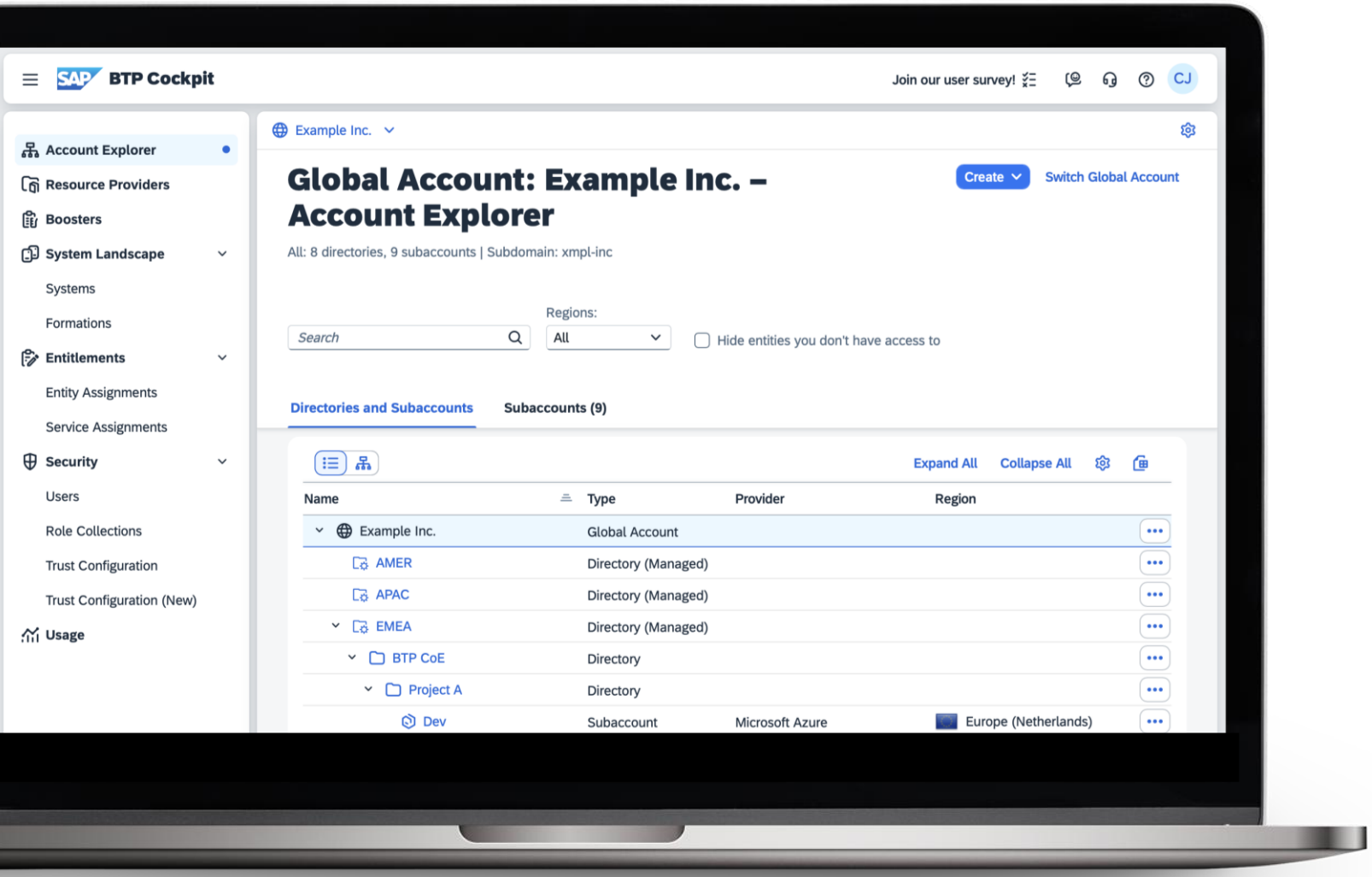
SAP BTP Cockpit



Central Administration Console for BTP

- Web-UI providing access to essential capabilities for administration and operations on the Business Technology Platform

- **Account** management
- Fine-granular **control of entitlements**
- Configuration of **users & permissions**
- **Connectivity**
- Provisioning for **BTP services and subscriptions**
- **Usage** Insights
- Deploy and operate workloads on the **Cloud Foundry** runtime
- Manage **Alert Notifications, Credentials, ...**

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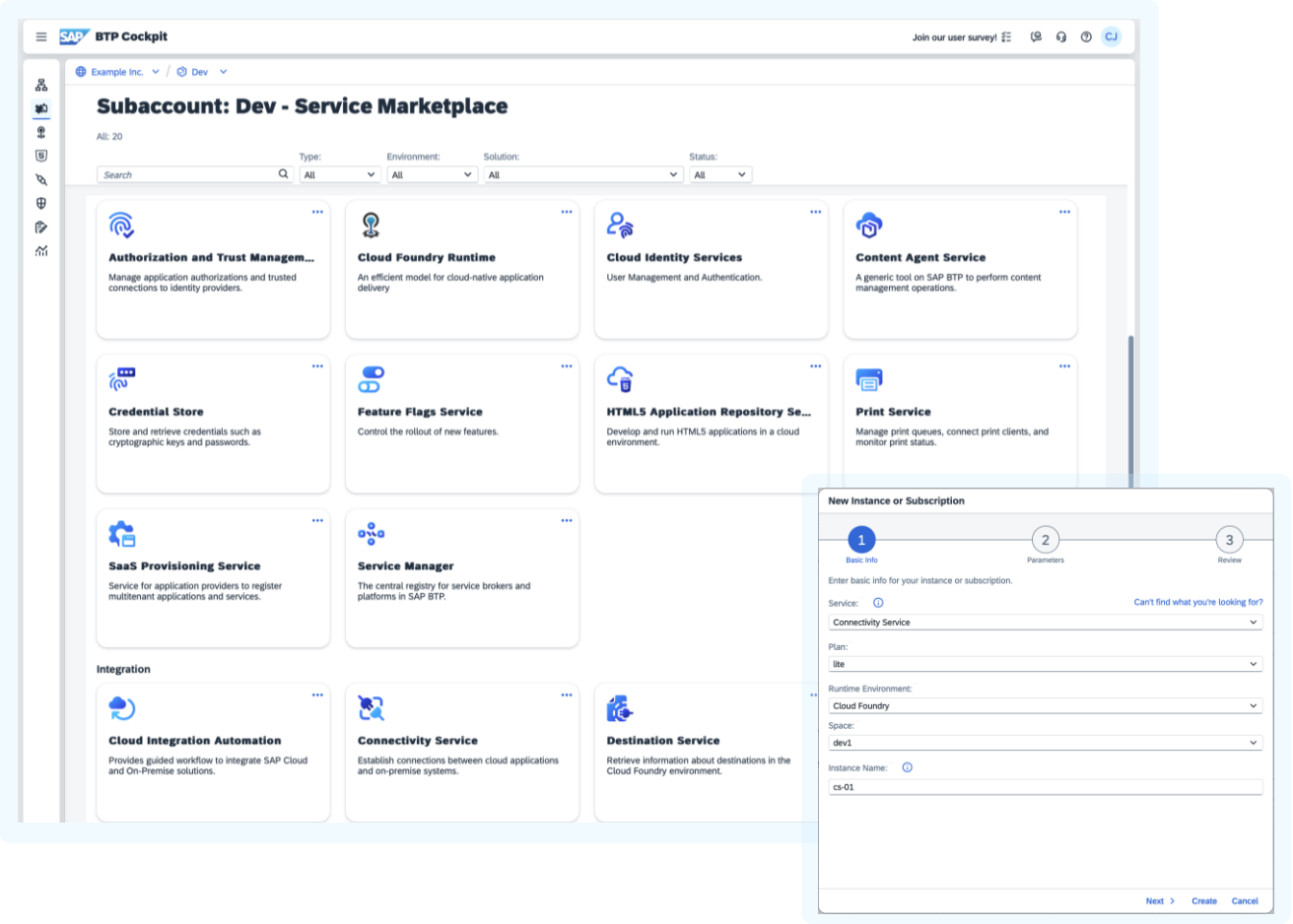
Entitlements, Services & Subscriptions



SAP BTP Cockpit lets you provision our large selection of business-centric services and technology.

- **Service Marketplace**
  The Services Marketplace in the BTP Cockpit lists the services and subscriptions available in the context of the respective subaccount. From there, you can also provision, update or delete instance.

- **Entitlements**
  Entitlements are the instrument that allows you to have fine-granular control over the services and service quota that should be available to individual subaccounts or directories.

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Account Model

Name	Type	Provider	Region
Example Inc.	Global Account		
AMER	Directory (Managed)		
APAC	Directory (Managed)		
EMEA	Directory (Managed)		
BTP CoE	Directory		
Project A	Directory		
Dev	Subaccount	Microsoft Azure	Europe (Netherlands)
Prod	Subaccount	Amazon Web Services (AWS)	Europe (Frankfurt)
Qual	Subaccount	Google Cloud Platform	Europe (Eemshaven)
HR	Directory		
Operations	Directory		
Sandbox	Directory		
Example 1	Subaccount	Amazon Web Services (AWS)	Brazil (São Paulo)
Example 2	Subaccount	Google Cloud Platform	Australia (Sydney)
Example 3	Subaccount	Microsoft Azure	Canada (Toronto)
Example 4	Subaccount	Amazon Web Services (AWS)	Japan (Tokyo)
Example 5	Subaccount	Google Cloud Platform	India (Mumbai)
Example 6	Subaccount	Microsoft Azure	US West (WA)

Entities of the Account Model

- **Global Account**
  Representation of your contractual agreement with SAP.
- **Directory** (Optional)
  Allows you to organize and manage subaccounts based on business or technical requirements. Supports central management of e.g. users and entitlements across a set of subaccounts.
- **Subaccount**
  Holds the applications, services and subscriptions – the content of that you work with. Plays an important role in our tenancy model and serves as the key entity to isolate content and permission.
- **Region**
  Represents the geographical location where applications, services or data are hosted.

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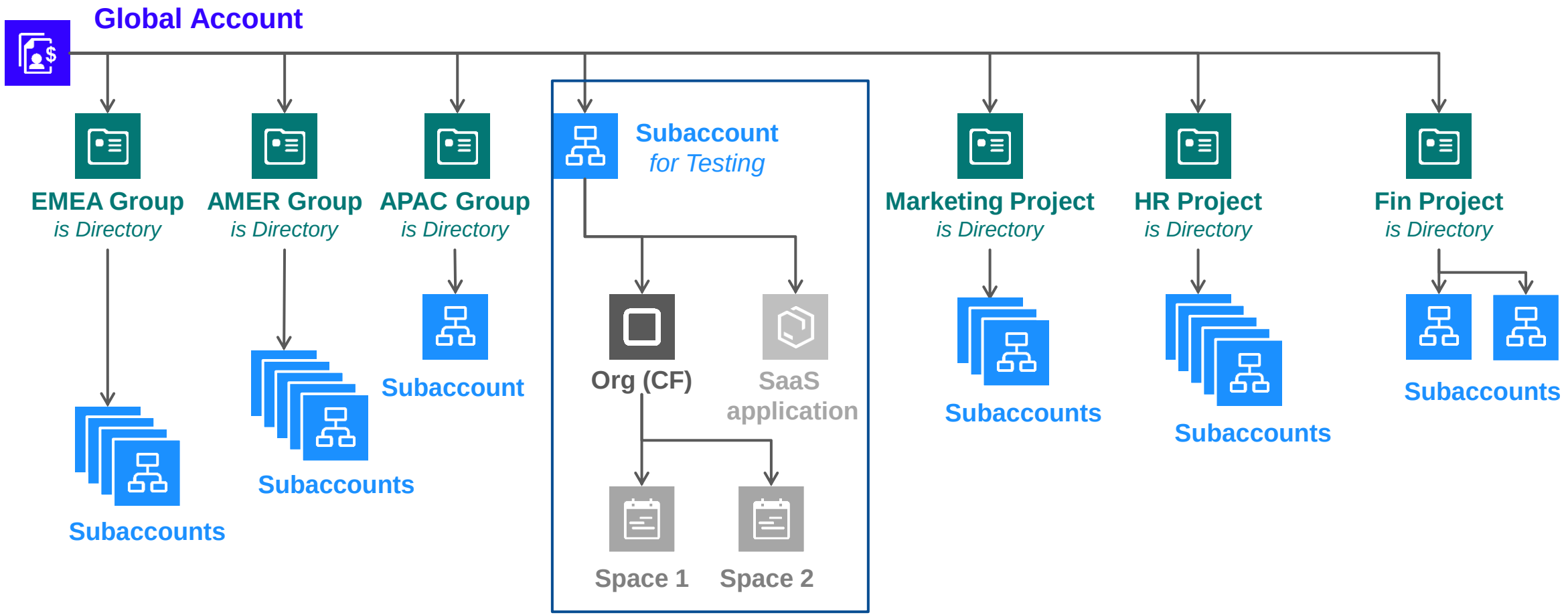
Account Model



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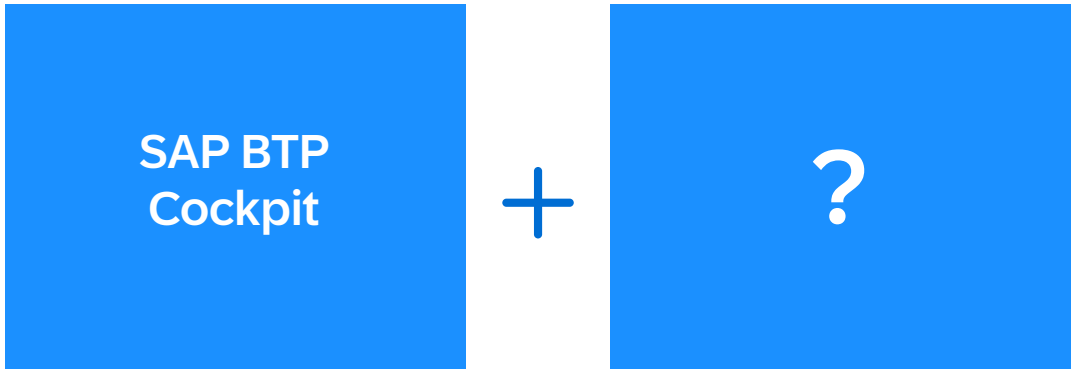
Administration at Scale



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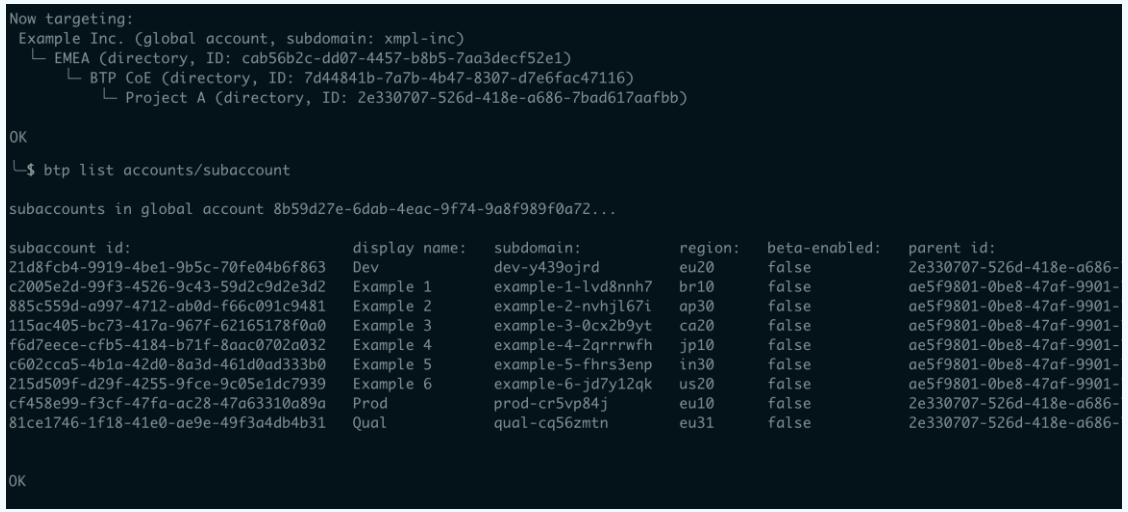
SAP BTP Command Line Interface (BTP CLI)



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Now targeting:
 Example Inc. (global account, subdomain: xmpl-inc)
   └ EMEA (directory, ID: cab56b2c-dd07-4457-b8b5-7aa3decf52e1)
       └ BTP CoE (directory, ID: 7d44841b-7a7b-4b47-8307-d7e6fac47116)
           └ Project A (directory, ID: 2e330707-526d-418e-a686-7bad617aafbb)

OK

└$ btp list accounts/subaccount

subaccounts in global account 8b59d27e-6dab-4eac-9f74-9a8f989f0a72...

subaccount id:                       display name:   subdomain:          region:   beta-enabled:   parent id:
21d8fcb4-9919-4be1-9b5c-70fe04b6f863   Dev           dev-y439ojrd        eu20      false           2e330707-526d-418e-a686-
c2005e2d-99f3-4526-9c43-59d2c9d2e3d2   Example 1     example-1-lvd8nnh7  br10      false           ae5f9801-0be8-47af-9901-
885c559d-a997-4712-ab0d-f66c091c9481   Example 2     example-2-nvhjl67i  ap30      false           ae5f9801-0be8-47af-9901-
115ac405-bc73-417a-967f-62165178f0a0   Example 3     example-3-0cx2b9yt  ca20      false           ae5f9801-0be8-47af-9901-
f6d7eece-cfb5-4184-b71f-8aac0702a032   Example 4     example-4-2qrrrwfh  jp10      false           ae5f9801-0be8-47af-9901-
c602cca5-4b1a-42d0-8a3d-461d0ad333b0   Example 5     example-5-fhrs3enp  in30      false           ae5f9801-0be8-47af-9901-
215d509f-d29f-4255-9fce-9c05e1dc7939   Example 6     example-6-jd7y12qk  us20      false           ae5f9801-0be8-47af-9901-
cf458e99-f3cf-47fa-ac28-47a63310a89a   Prod          prod-cr5vp84j       eu10      false           2e330707-526d-418e-a686-
81ce1746-1f18-41e0-ae9e-49f3a4db4b31   Qual          qual-cq56zmtn       eu31      false           2e330707-526d-418e-a686-


OK
```

About

- **Interactive UI**
  The btp CLI offers **an alternative to the cockpit** for users who prefer working on the command line. It consists of a client and a server. The client is installed on your computer and it interacts with SAP BTP through a server. You connect to this CLI server (https://cli.btp.cloud.sap/) when you log on to your global account through the btp CLI.

- The CLI can also be used for scripting, where it's machine readable responses make it possible to build complex automation

- Today, most important platform administration capabilities are available, for example:
  - Creating subaccounts and directories
  - Managing entitlements of global accounts and subaccounts
  - Managing users and their authorizations in global accounts and subaccounts
  - Subscribing to applications

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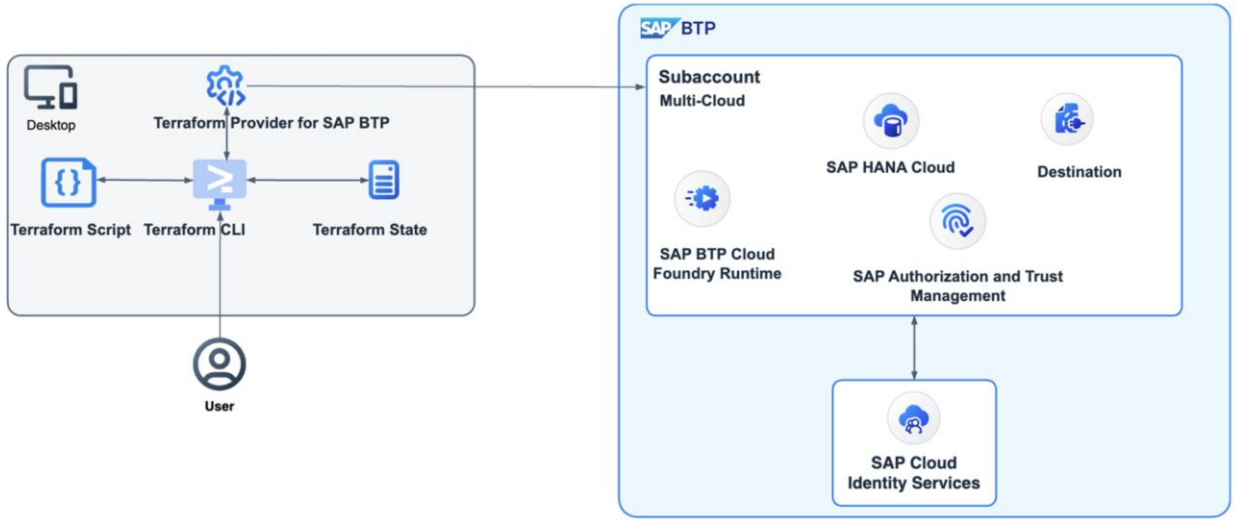
BTP Terraform Provider



About

- **Infrastructure as Code** (IaC) enables you to automate infrastructure provisioning and management using code instead of manual actions.
- IaC uses a **declarative approach**. You define the desired state of the system, including what resources you need and any properties they should have. The IaC tool will take this target configuration and execute the necessary steps to match it.

Key benefits:

- Consistency
- Scalability
- Versioning
- Collaboration
- Documentation of target state

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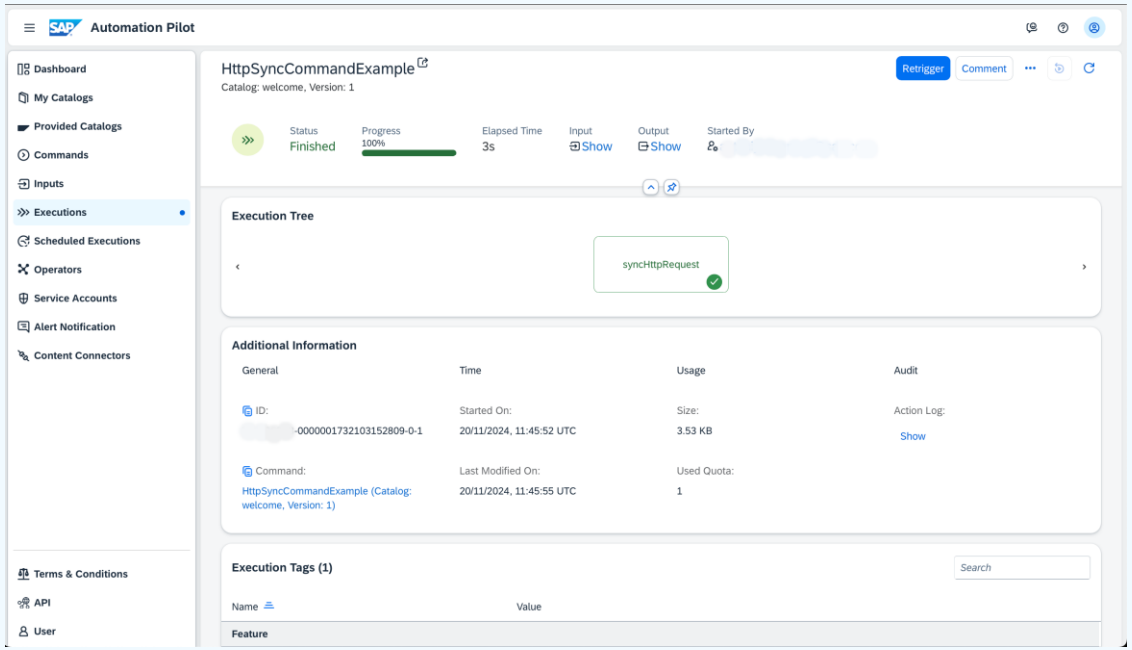
SAP Automation Pilot



About

Automation Pilot is a service to help simplify your operational effort behind cloud solutions on SAP BTP. It gives you an access to a wide variety of provided fully automated procedures like: Database and Application Lifecycle Management, Monitoring, HTTP Requests, Bash Scripting and more

Capabilities:

- Running Predefined Commands
- Building Custom Commands
- Storing Data Securely
- Scheduling Executions
- React on Events

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Administration at Scale

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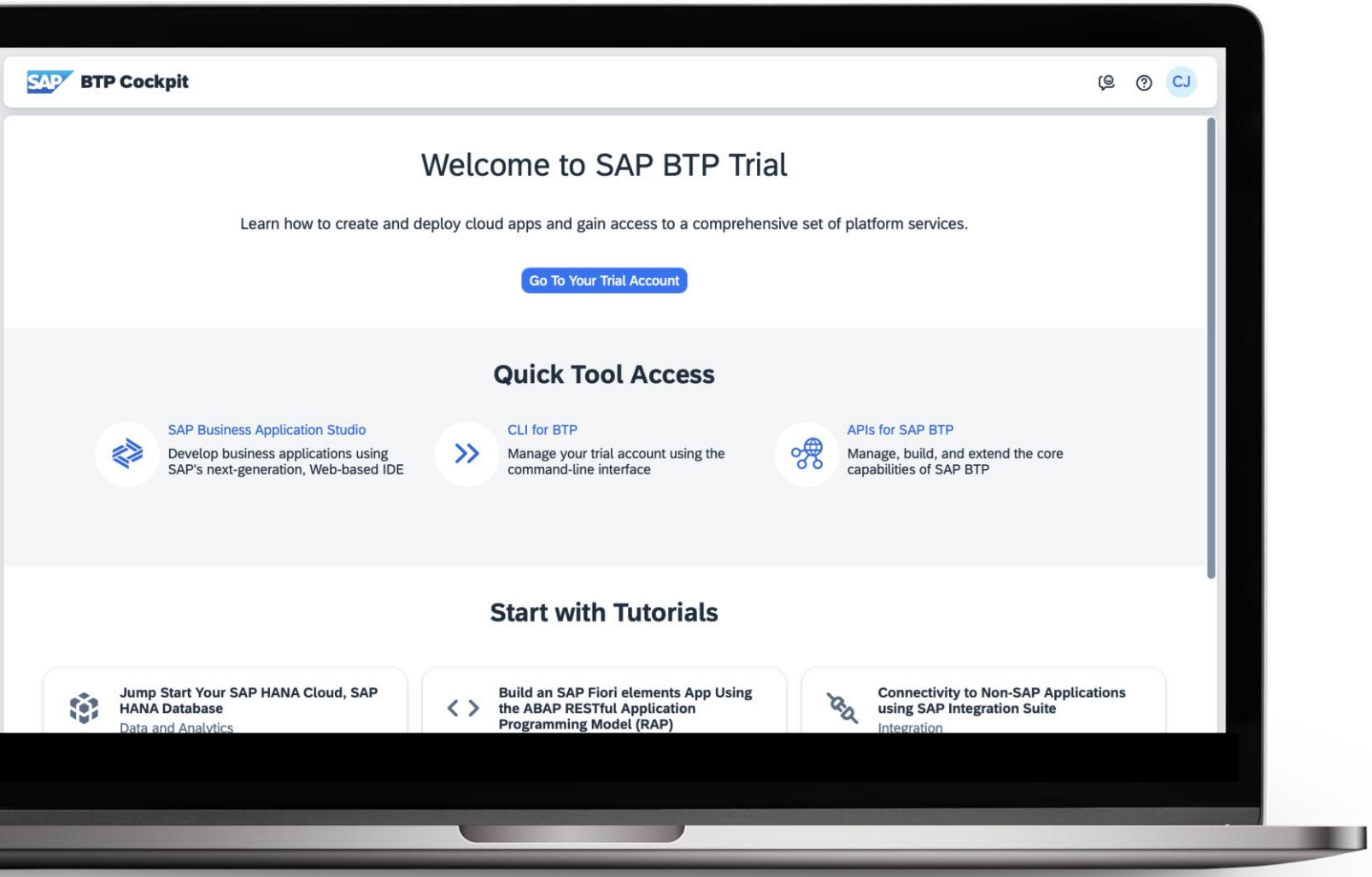
SAP BTP Trial



Explore SAP BTP Trial

A trial environment is available at no cost that allows you to explore a wide selection of administrative tools and capabilities, offering a global account with a rich set of entitlements and a pre-configured subaccount to quickly get started

https://www.sap.com/products/technology-platform/trial.html

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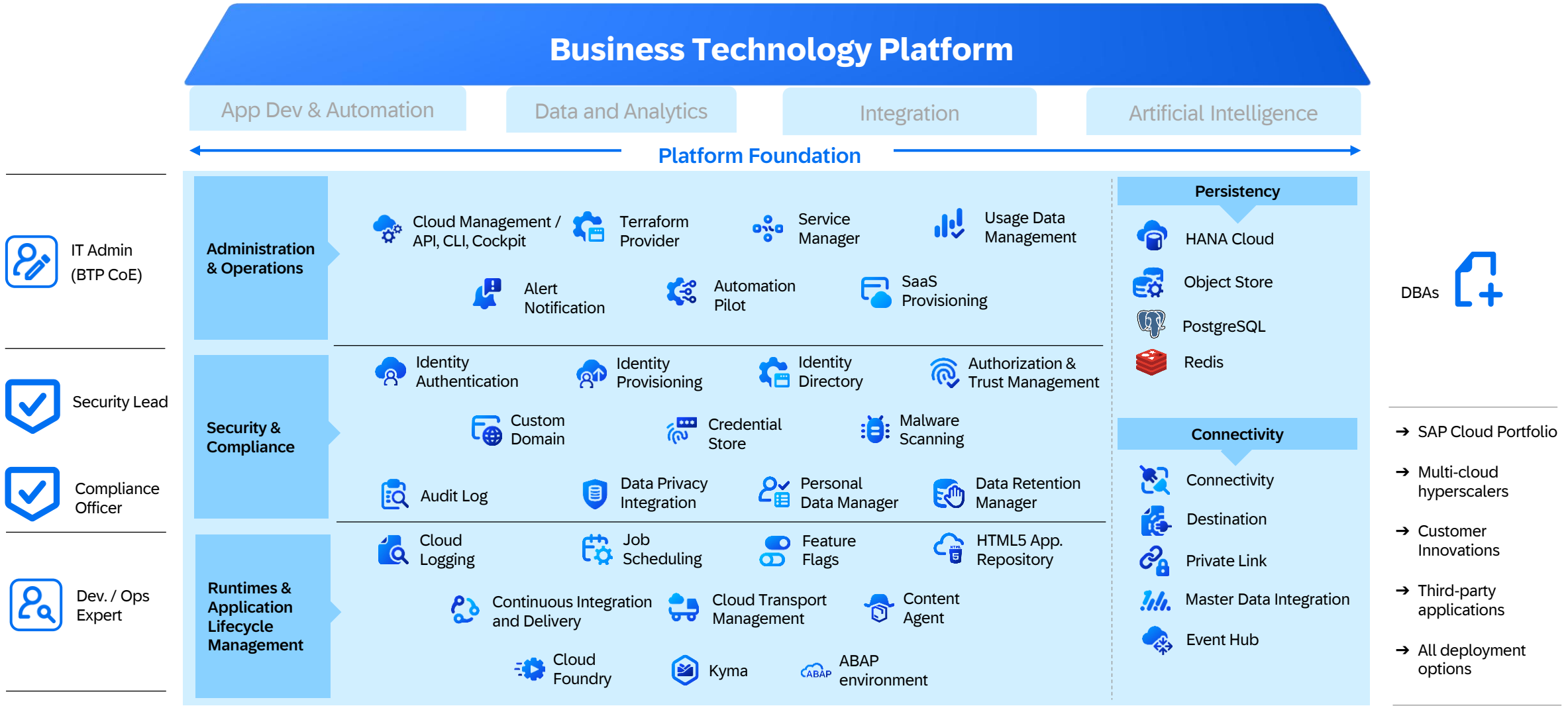
Summary

Platform Foundation



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