SAP Business Technology Platform for Developers

Tools, Services and Architecture

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SAP Inside Track İstanbul
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Agenda

SAP BTP Overview

Application Development & Automation

Databases

Document Management

Artificial Intelligence

Integration

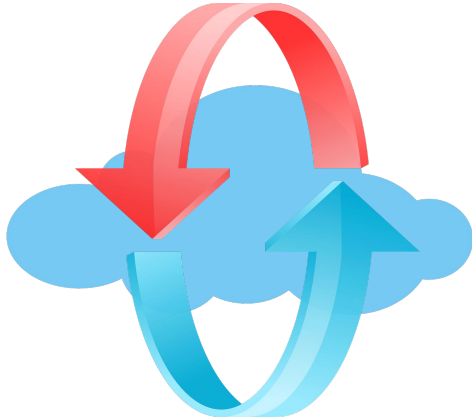Security & Connectivity

SAP BTP Overview

Moving to the Cloud

Mainframe & PC

Transistor & Silicon Revolution
Large-scale mainframe computing adoption
Emergence of PCs

Cloud & Mobile & Big Data

Mobile & Smartphones become popular
Social Networking
Big Data
Cloud Computing

1990

2010

1960

2000

Client-Server & Internet

Client-Server model started gaining popularity
Broadband Internet
ERP and Business Technologies

Intelligent Technologies

Machine Learning & Artificial Intelligence
IoT & Distributed Computing
Blockchain

On-Premise & Cloud & Hybrid Model

The latest innovations in cloud infrastructure enable customers to be more flexible in designing their IT landscapes, spanning from on-premises to a public and/or private cloud platforms.

The hybrid cloud approach has gained remarkable popularity due to its ability to achieve a seamless integration between on-premise and pure-cloud solutions, providing organizations with the optimal choice of control, scalability, and cost-effectiveness.

SAP Business Technology Platform

ARTIFICIAL INTELLIGENCE

APPLICATION DEVELOPMENT

DATA & ANALYTICS

AUTOMATION

BUSINESS TECHNOLOGY PLATFORM
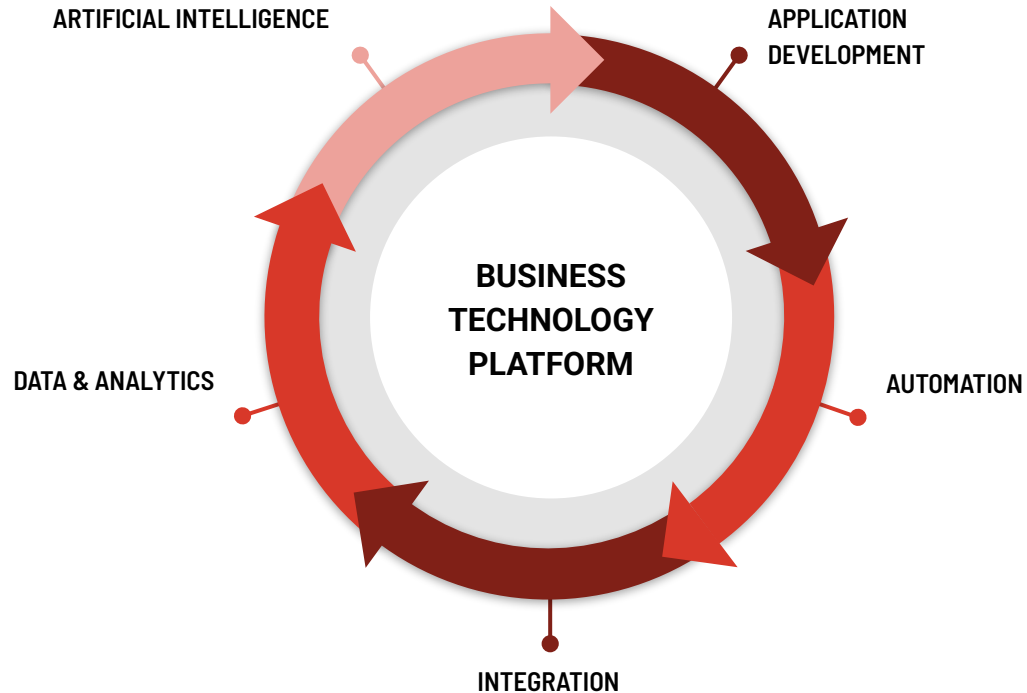
INTEGRATION

SAP Business Technology Platform

Application Development

Runtime Platforms
(CF, Kyma, ABAP)
Development Tools (CAP;RAP)
SAP Build Apps / WorkZone
DevOps

Automation

SAP Build Process
Automation

Integration
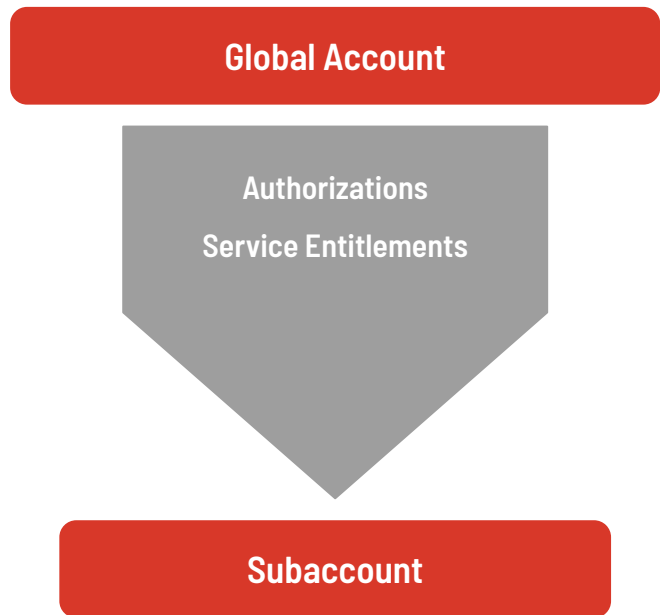
SAP Integration Suite
Advanced Event Mesh

Data & Analytics

SAP HANA Cloud
SAP Analytics Cloud
SAP Datasphere
SAP Master Data
Governance
SAP Data Intelligence
Cloud

Artificial Intelligence

SAP AI Launchpad
SAP AI Core
SAP AI Business Services

Account Model

Global Account

Authorizations
Service Entitlements

Subaccount

Each customer is assigned to a Global Account where they can create subaccounts to manage and run different services and integrations even in different regions.
It is possible to assign different security and service configurations for each subaccount. This provides flexibility in designing and implementing different configurations for custom requirements.

BTP - Subaccounts

Global Account

Directory

Subaccount

Subaccount

Directory

Subaccount

Subaccount

Subaccount

Directory

Subaccount

Subaccount

Subaccount

BTP - Regions

SAP
AWS
Microsoft Azure
Google Cloud
Alibaba

BTP - Regions

SAP

AWS
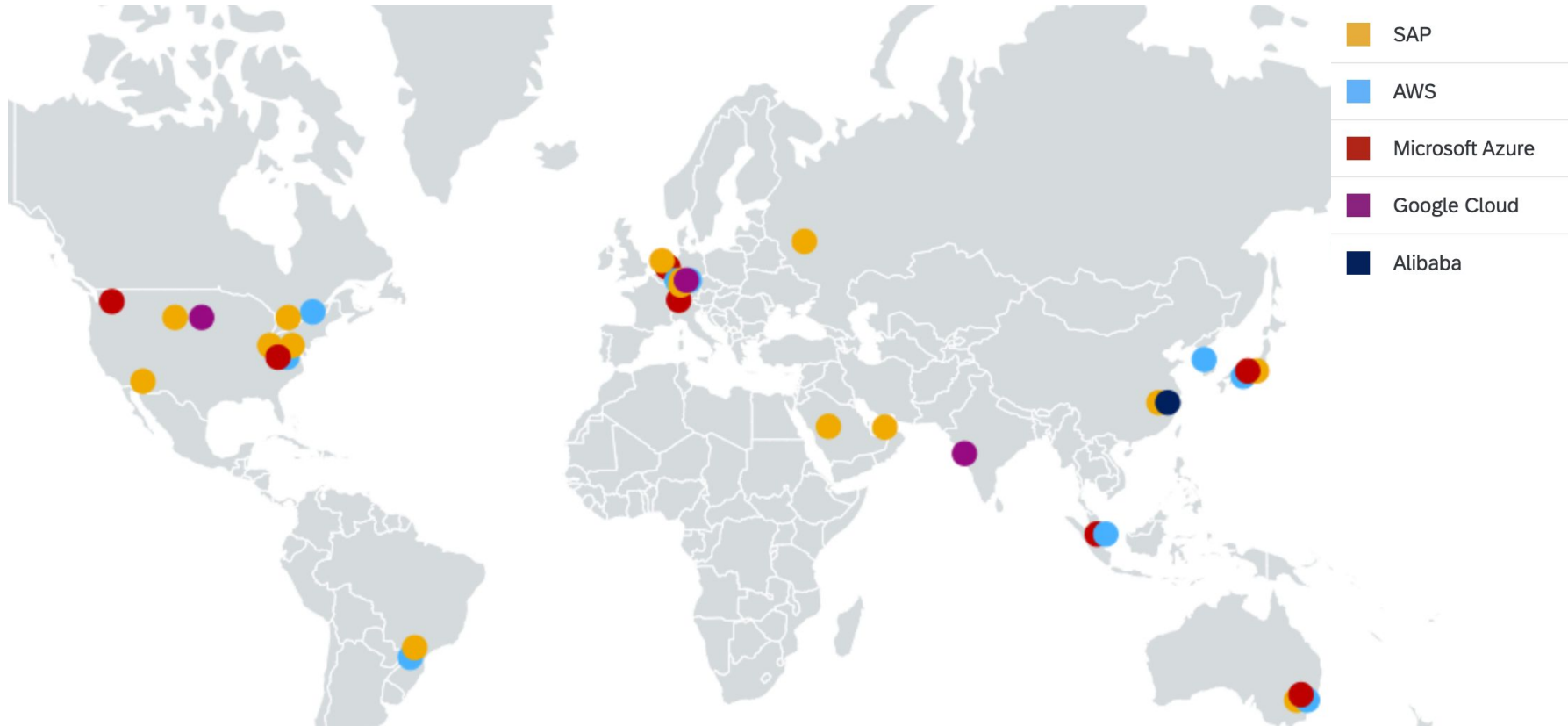
Microsoft Azure

Google Cloud

Alibaba

Every subaccount can be assigned to a different region.

Not all BTP services are available on every region.

Check service availability for regions on

SAP Discovery Center - Service Catalog

https://discovery-center.cloud.sap/viewServices

SAP Discovery Center - Service Catalog

https://discovery-center.cloud.sap/viewServices

SAP BTP Cockpit

SAP BTP Cockpit

Choose your global account:

G1 Global Account 1 ⓘ
Subdomain: globalaccount1

G2 Global Account 2 ⓘ
Subdomain: globalaccount2

G3 Global Account 3 ⓘ
Subdomain: globalaccount3

G4 Global Account 4 ⓘ
~~Subdomain: globalaccount4~~

Can't find your global accounts? View global accounts in feature set A ⓘ

☐ Remember my selection

Logged in as **Abdulbasit Gulsen (abdulbasit@gulsen.net)**

Can't find your global account? Log in with a different user

Continue

https://<region>.cockpit.btp.cloud.sap/cockpit

<region> : emea, aper, amac

Each URL redirects to the same BTP Cockpit home page, which lists all Global Accounts assigned to the user logged in with the Universal ID.

BTP Trial

SAP Universal ID

Create your SAP Universal ID

We just need some basic personal information and a password for your SAP Universal ID.

Already have a SAP Universal ID? Link accounts to my SAP Universal ID

First Name

Last Name

Country/Region

SAP Universal ID E-mail   The e-mail address will be used as your new login

Password

Re-enter Password

☐ I acknowledge that I have read the Terms Of Use.

Welcome to Your Personal Trial

Hi Abdulbasit,

Before you continue, we need to finalize your trial account creation. Choose the region that's closest to you:

◉ 🇺🇸 US East (VA) - AWS

○ 🇸🇬 Singapore - Azure

Create Account

SAP BTP Trial

Welcome to Your Personal Trial

We will now set up your account. This process can take a minute.

Region:	US East (VA) - AWS
Global Account:	
Subaccount:	trial
Org:	
Space:	dev

Continue

BTP Trial

The trial account is for personal exploration, non-productive testing and evaluation of the services.

- The trial period is 90 days.

- The trial account is suspended if it is not used for 30 days but the data will not be deleted.

- Once the trial period is over, the trial account is deleted.

- A new trial account can be created after it is deleted.

BTP Free Tier

Pay-As-You-Go for SAP BTP

USD 0.00

- Contract duration between 3 and 12 Month
- Auto-Renewal

See buying conditions ↗

Start Now

Terms and Conditions

Features:

✓ Build small-scale apps paying only for services used.

✓ Use for proof-of-concepts and small-scale pilots.

✓ Pay only for what you use beyond free limits.

✓ Includes access to free tier model for learning, prototyping, and testing.

✓ Estimate your usage and evaluate your monthly cost. Access the "Local Estimate" in the SAP Discovery Center by clicking in the edit pencil icon.

Application Development & Automation

Runtime Platforms

ABAP

Designed for developers familiar with SAP's traditional ABAP

ABAP developers who want to build cloud-native extensions or custom applications in an environment familiar to them.

- Provisioned in SAP BTP subaccout
- Allows reuse of existing ABAP skills and code assets.
- Tightly focused on SAP environments; limited for use with non-SAP technologies.

Cloud Foundry

Supports multiple programming languages and frameworks

Developers looking for flexibility in language and framework choices. Ideal for building cloud-native applications with diverse technology stacks.

- Managed and embedded in SAP BTP subaccount
- Multi-language support, including Java, JavaScript, Python, and more.
- Scalability and Flexibility

Kyma

Kubernetes based runtime

Developers looking to leverage Kubernetes for containerized applications and serverless architectures with a strong focus on extensibility and flexibility.

- Provisioned in SAP BTP subaccount
- Based on Kubernetes, which allows for container orchestration and management.
- Highly flexible and scalable, leveraging open-source tools and ecosystems.

Runtime Platforms

ABAP

Cloud Application Programming Model – CAP

Node.js | Java

Python

Cloud Application Programming Model – CAP

Node.js | Java

Node.js | Python

Java (Spring etc.) | Containers ...

ABAP

Cloud Foundry

Kyma
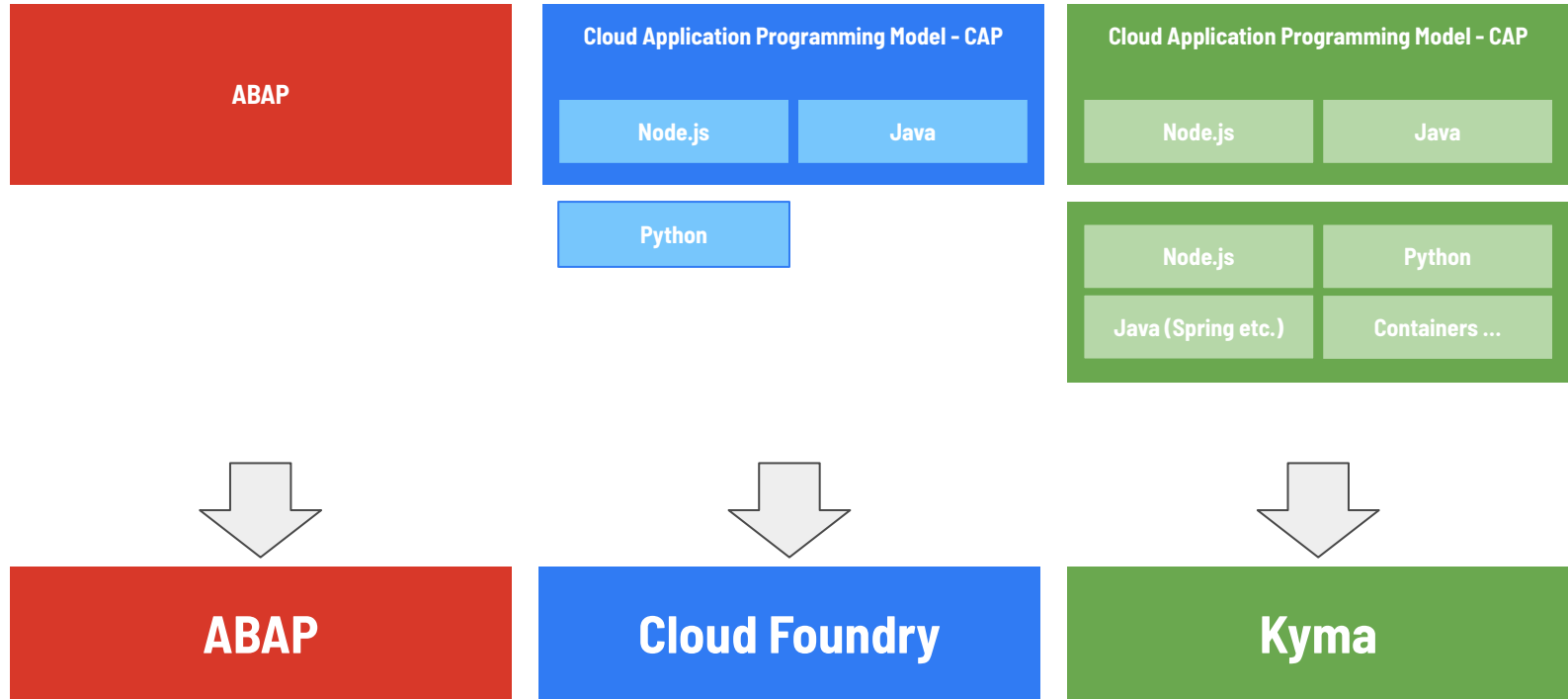
SAP Fiori
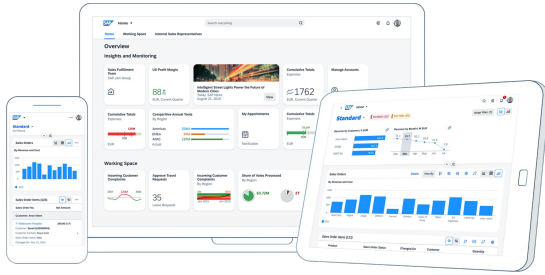
- Role-based, Coherent, Adaptive, Simple, Delightful

- Guidelines for Web, IOS, Android

- 3 main development options:
    - Freestyle Development
    - Fiori Elements
    - Flexible Programming Model

SAP Build

SAP Build Apps

Create and augment enterprise apps quickly and visually with low-code.

- Build user interfaces easily
- Create data models and business logic visually
- Integrate seamlessly

SAP Build Code

Code with generative AI, optimized for Java and JavaScript application development.

- GenAI-based code development with Joule copilot
- Optimized for Java and JavaScript application development
- Providing a turn-key environment for coding, testing, integrations, and application lifecycle management

SAP Build Process Automation

Automate workflow processes and tasks with drag-and-drop simplicity.

- Build process flows and automate manual tasks
- Use AI for intelligent document processing
- Develop with AI assistance and drag-and-drop simplicity
- Deliver faster with pre-built workflows, bots, and connectors

SAP Build WorkZone

Design digital workspaces to connect and collaborate across all your enterprise applications in one place.

- Build digital workspaces without code
- Connect enterprise applications with ease
- Surface individualized recommendations, insights and actions
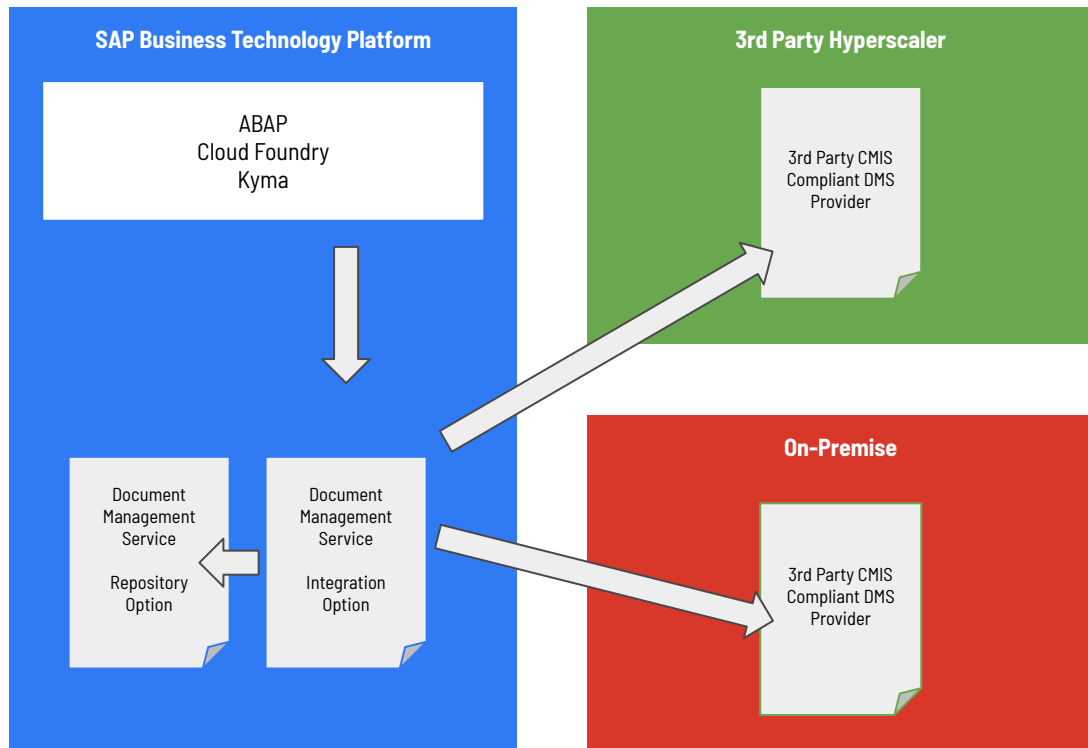- Enable constant communication, knowledge sharing and feedback
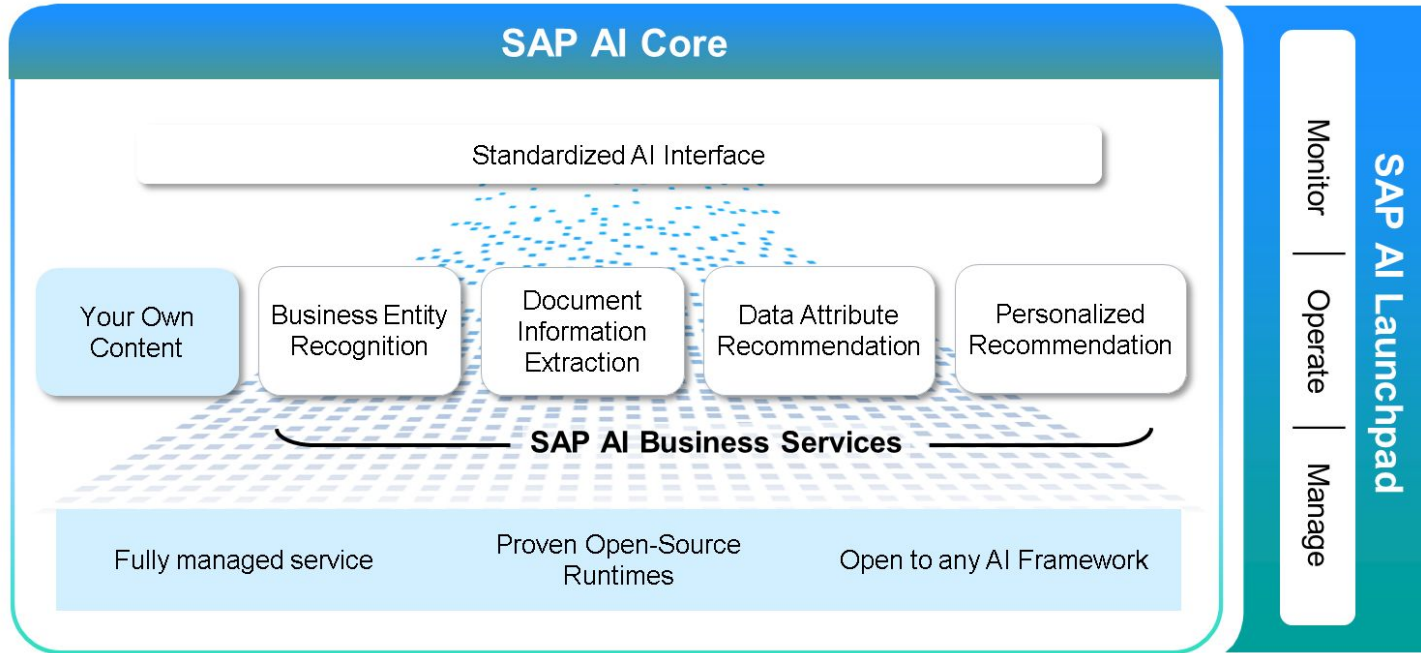
Databases
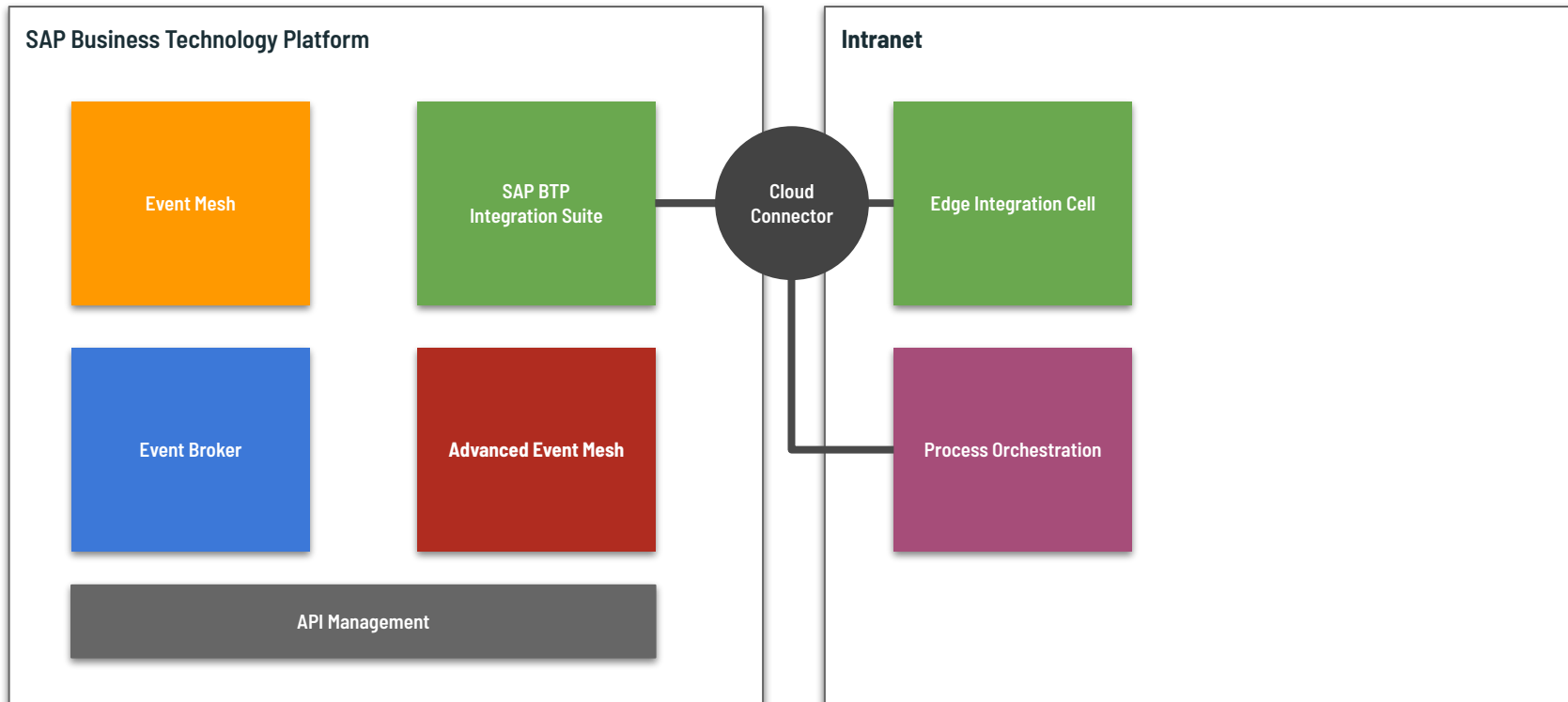
Databases
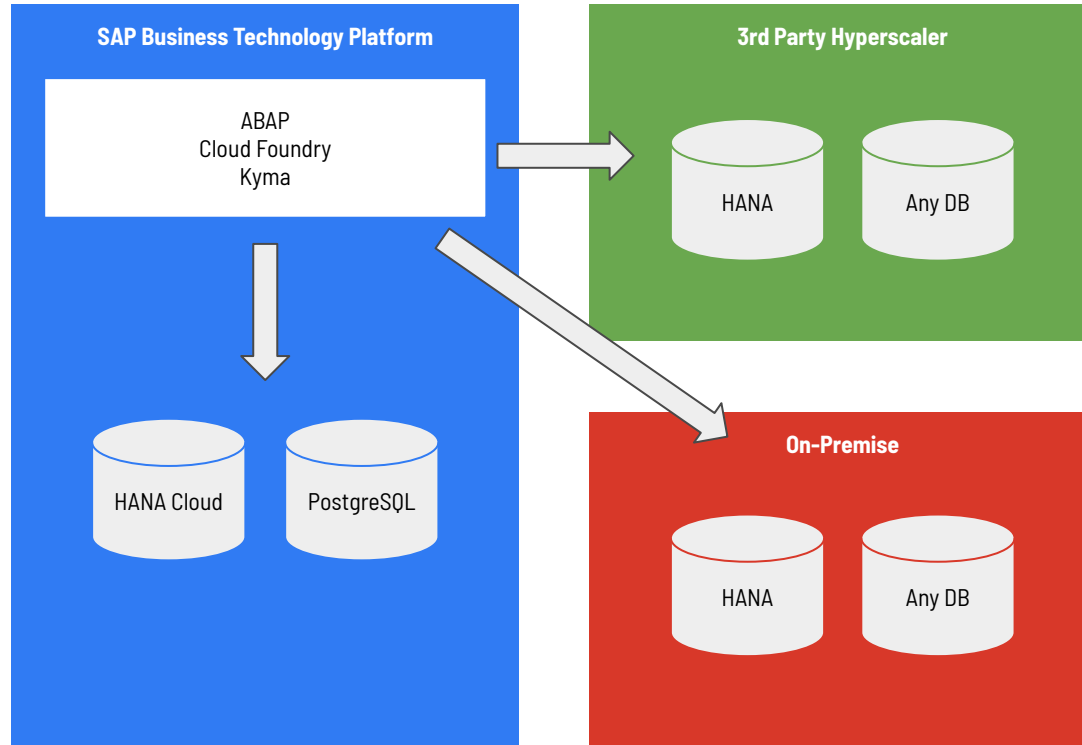
Document Management

Document Management

Artificial Intelligence

Artificial Intelligence
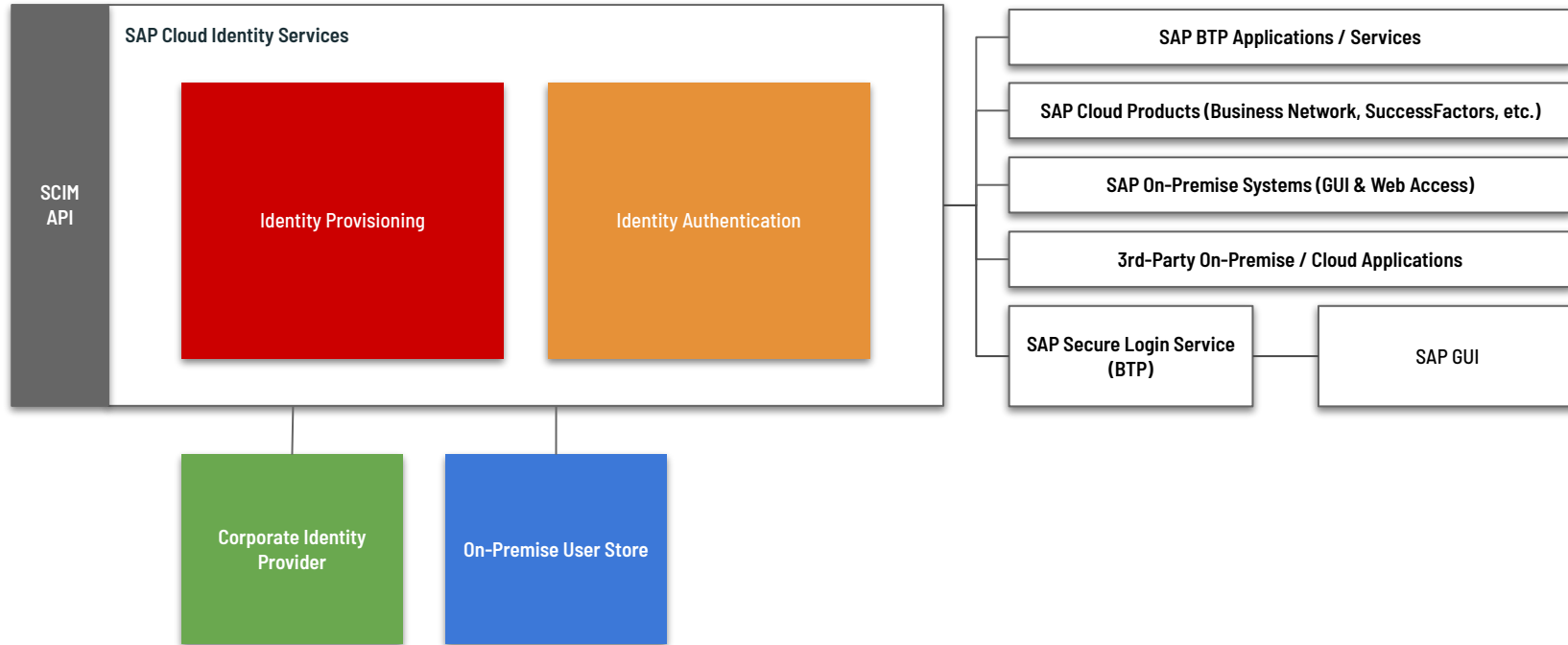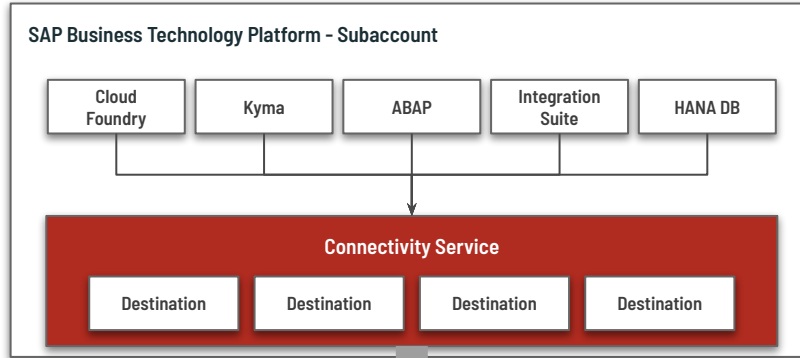
Integration

Integration Overview

Security & Connectivity

Cloud Identity Services

SAP Cloud Identity Services are a group of services, designed to enable identity and access management across cloud and on-premise systems. They aim to provide a seamless single sign-on experience for users while ensuring that system and data access are secure.
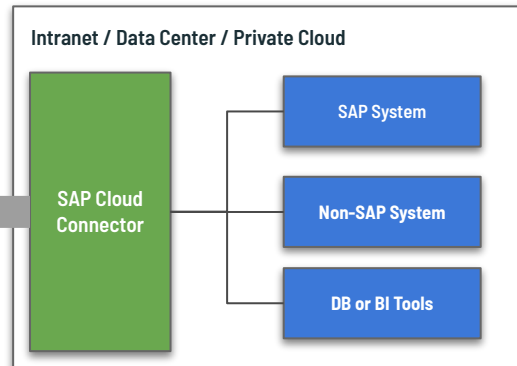
SAP Cloud Connector

SAP Business Technology Platform – Subaccount

| Cloud Foundry | Kyma | ABAP | Integration Suite | HANA DB |

Connectivity Service

| Destination | Destination | Destination | Destination |

HTTPS Secure Tunnel

HTTP, RFC, TCP, LDAP

Intranet / Data Center / Private Cloud

SAP Cloud Connector

SAP System

Non-SAP System

DB or BI Tools

- Supports HTTP(S), RFC, TCP and LDAP from Cloud to On-Premise
- Service Channels provide access from external systems to specific services on SAP BTP
  - RFC Connection to an ABAP Cloud system
  - TCP connection to a SAP BTP Kubernetes cluster
  - DB Connection to SAP HANA Database on SAP BTP

/thank you

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https://bsky.app/profile/abdulbasit.gulsen.net
https://www.linkedin.com/in/abdulbasitg/