SAP Business Technology Platform

Abdulbasıt Gülşen

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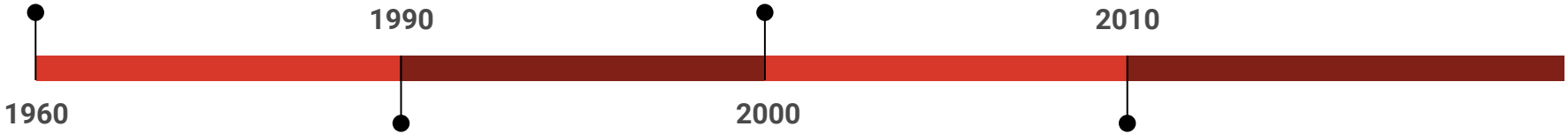
- SAP Experience since 2000
- SAP Press Author - 100 Things You Should Know About ABAP Workbench
- SAP Mentor (2012 -)

Agenda

SAP BTP Overview
Architecture
Application Development & Automation
Integration
Data & Analytics
Artificial Intelligence
Security & Connectivity

SAP BTP Overview

Moving to the Cloud



Mainframe & PC

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

Client-Server & Internet

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

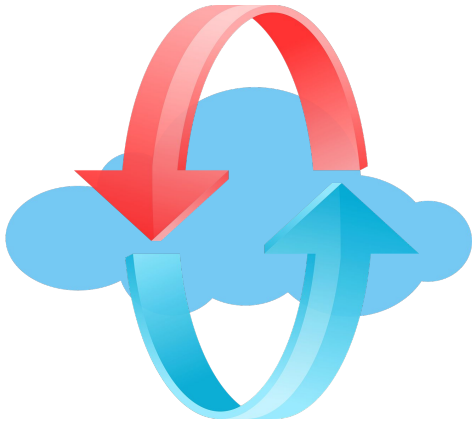
Cloud & Mobile & Big Data

Mobile & Smartphones become popular
Social Networking
Big Data
Cloud Computing

Intelligent Technologies

Machine Learning & Artificial Intelligence
IoT & Distributed Computing
Blockchain

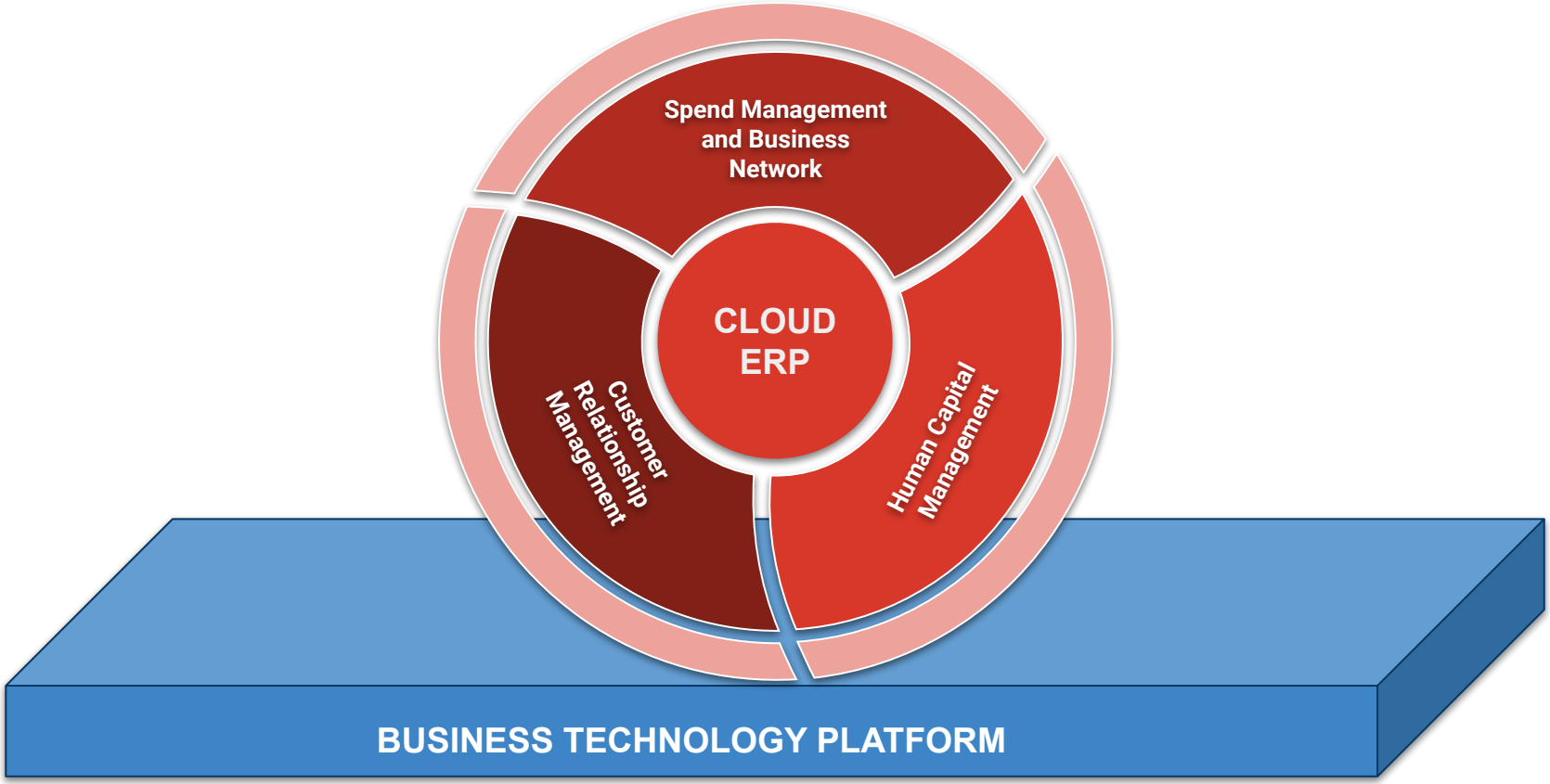
On-Premise & Cloud & Hybrid Model



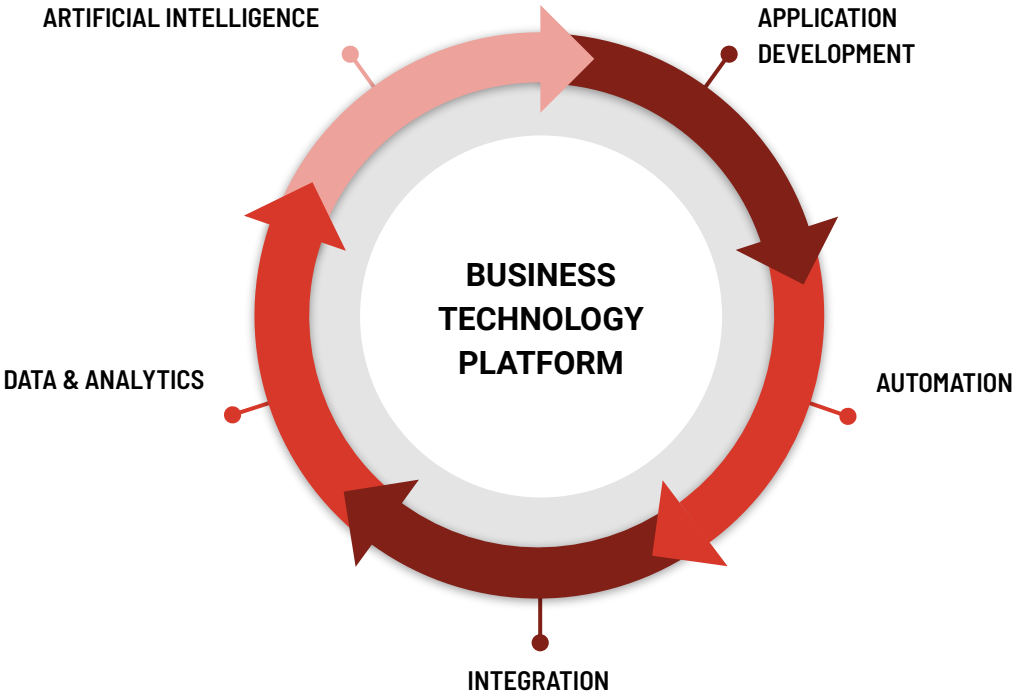
The latest innovations in cloud infrastructure enable customers to be more flexible in designing their IT landscapes, spanning from on-premises to a public and/or private cloud platforms.

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's Intelligent Enterprise Strategy



SAP Business Technology Platform



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

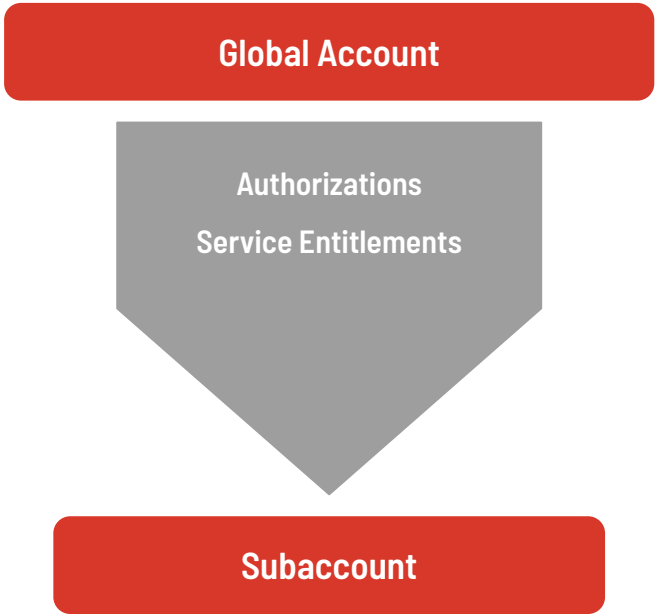
SAP HANA Cloud
SAP Analytics Cloud
SAP Datasphere
SAP Master Data
Governance
SAP Data Intelligence
Cloud

Artificial Intelligence

SAP AI Launchpad
SAP AI Core
SAP AI Business Services

SAP BTP Architecture

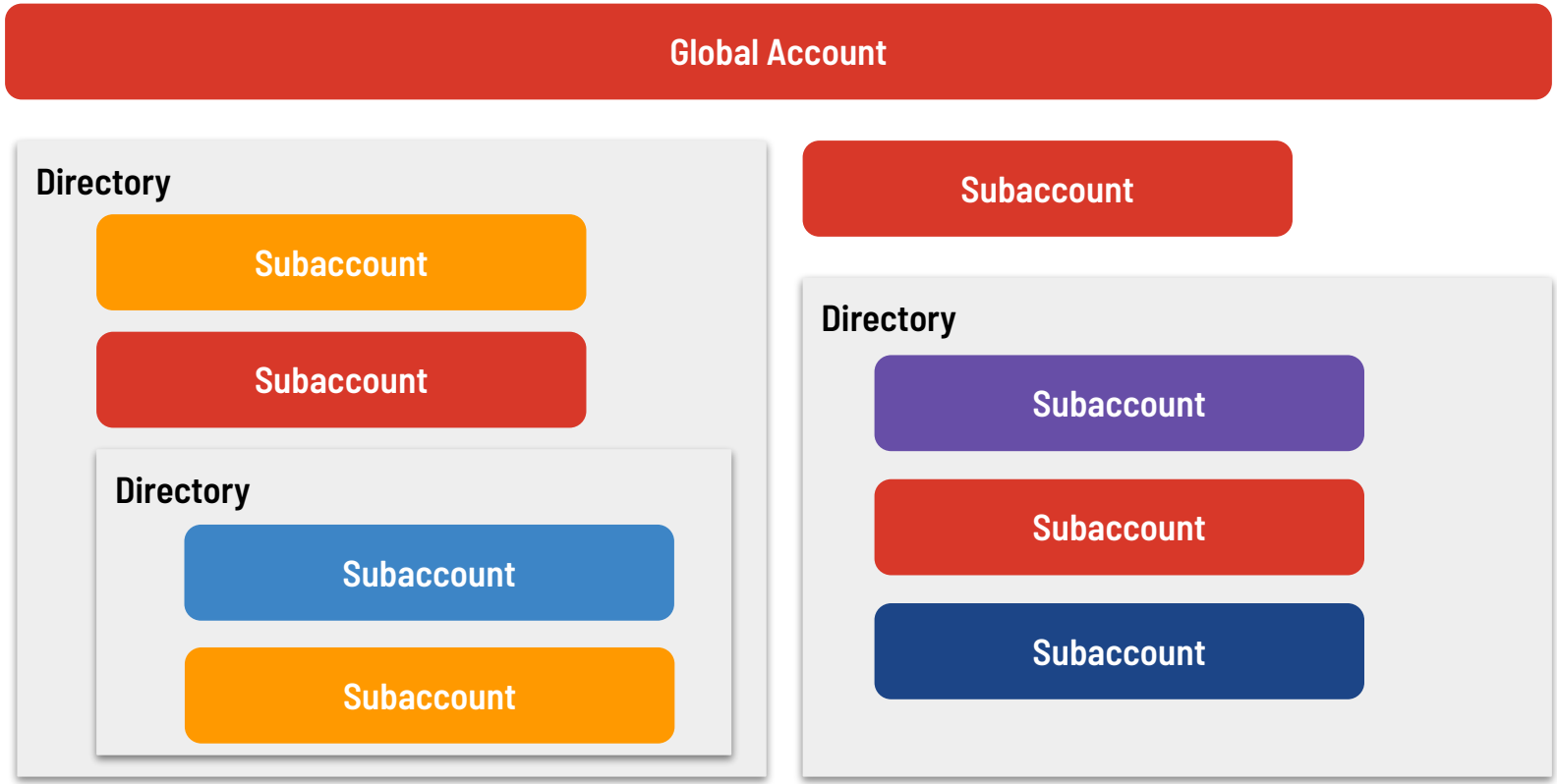
Account Model



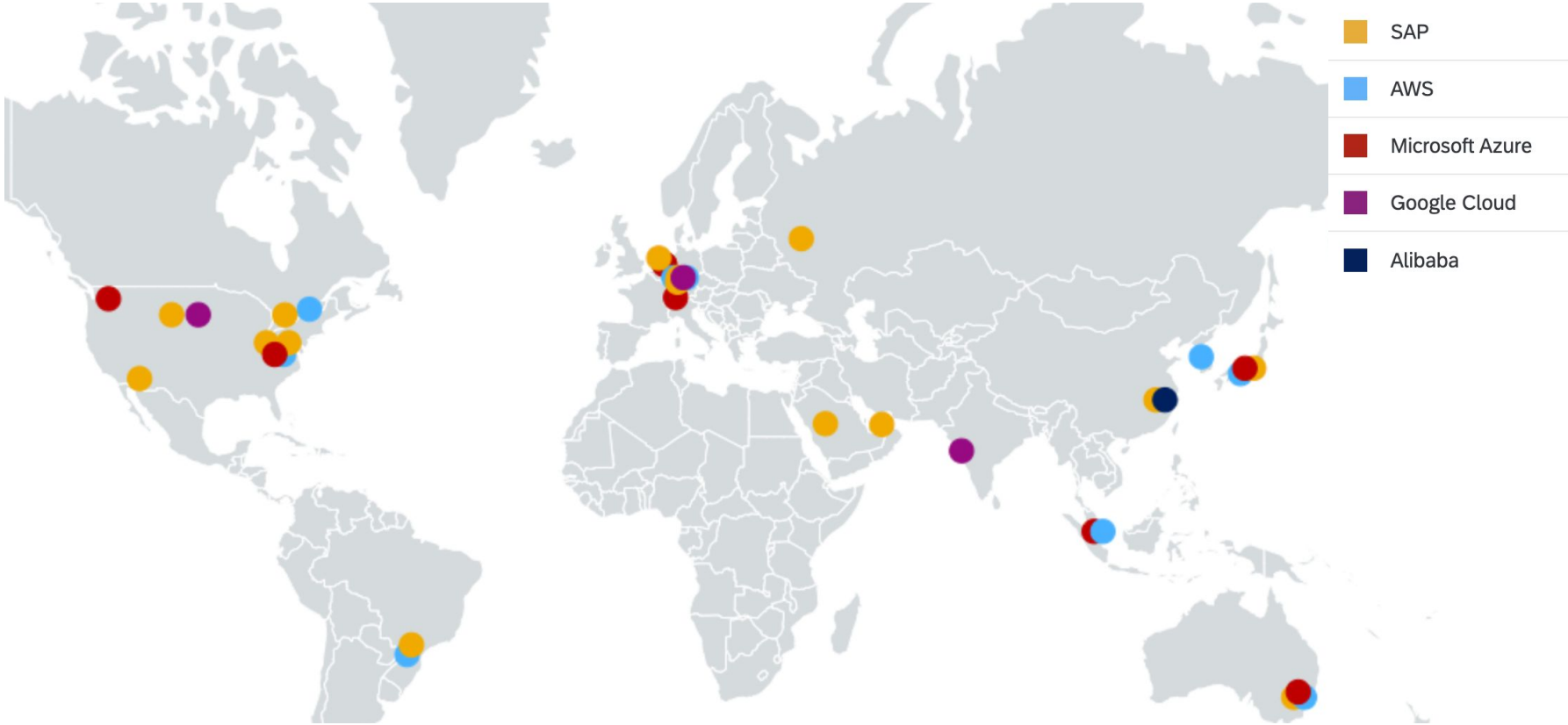
Each customer is assigned to a Global Account where they can create subaccounts to manage and run different services and integrations even in different regions.

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



BTP - Regions



BTP - Regions

- SAP
- AWS
- Microsoft Azure
- Google Cloud
- Alibaba

Every subaccount can be assigned to a different region.

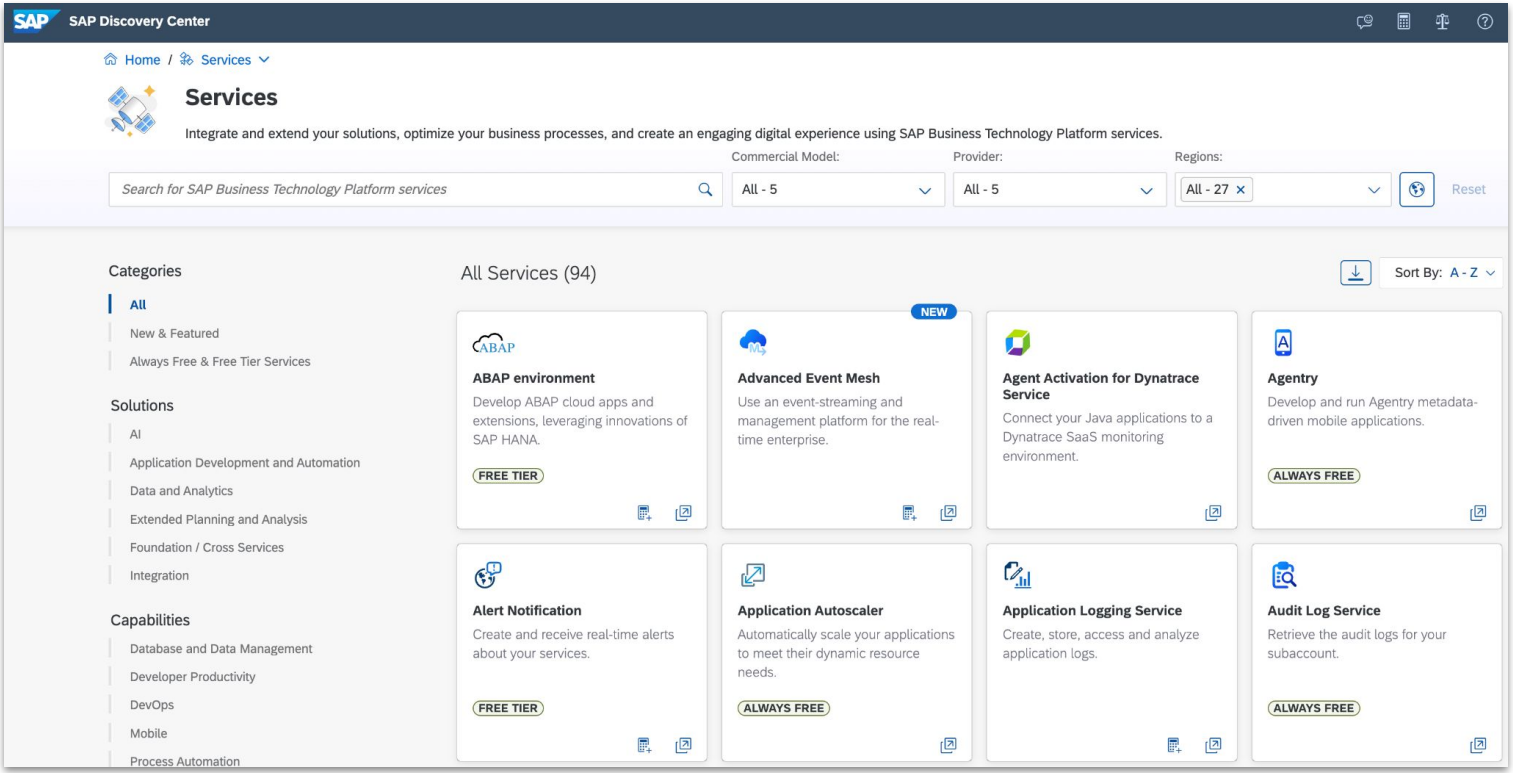
Not all BTP services are available on every region.

Check service availability for regions on

SAP Discovery Center - Service Catalog

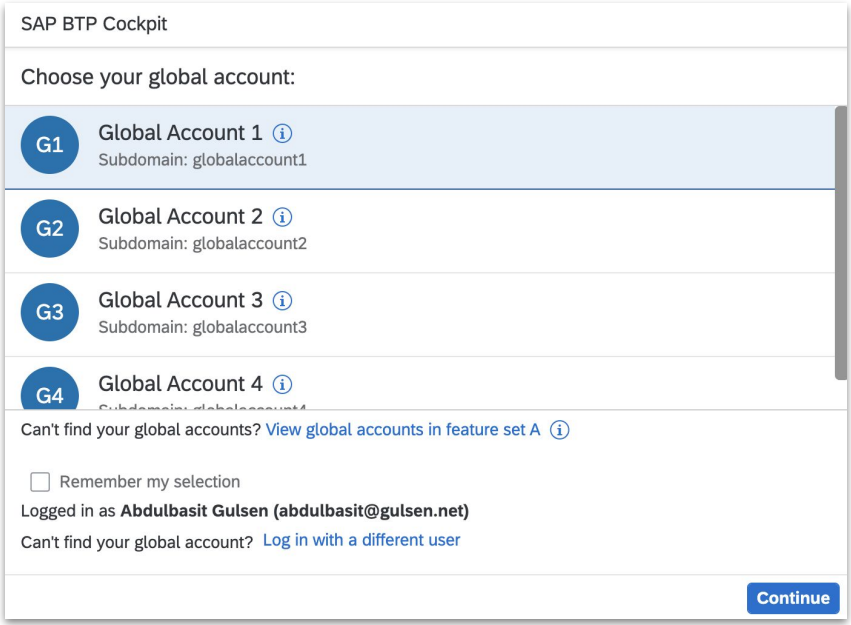
https://discovery-center.cloud.sap/viewServices

SAP Discovery Center – Service Catalog



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

SAP BTP Cockpit



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

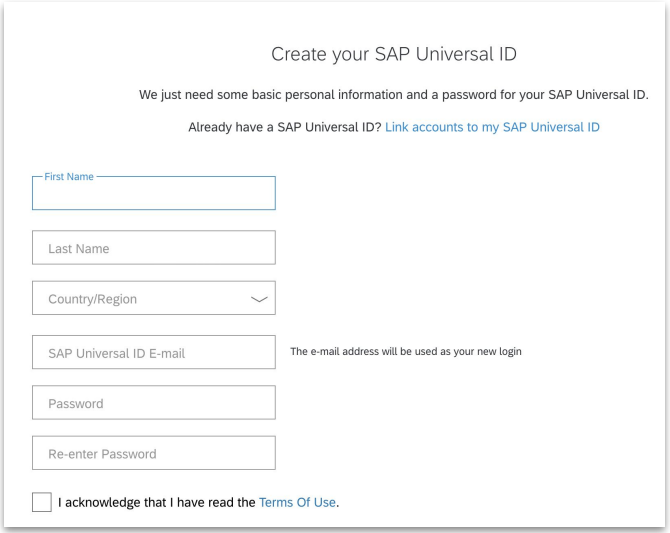
<region> : emea, aper, amac

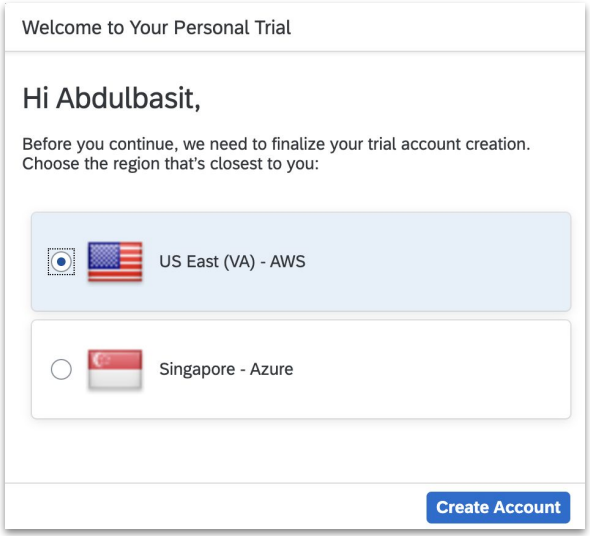
Each URL redirects to the same BTP Cockpit home page, which lists all Global Accounts assigned to the user logged in with the Universal ID.

BTP Trial

SAP Universal ID

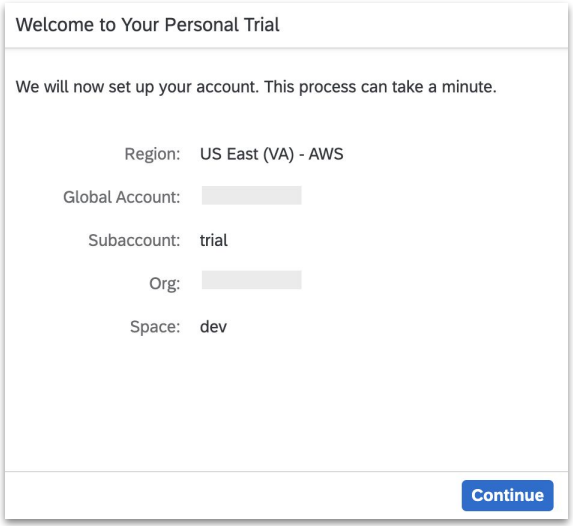
https://account.sap.com/core/create/register





SAP BTP Trial

https://account.hanatrial.ondemand.com



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

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

https://discovery-center.cloud.sap/viewServices?category=freetierservices&regions=all&commercialModel=payg

Pay-As-You-Go for SAP BTP

USD 0.00

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

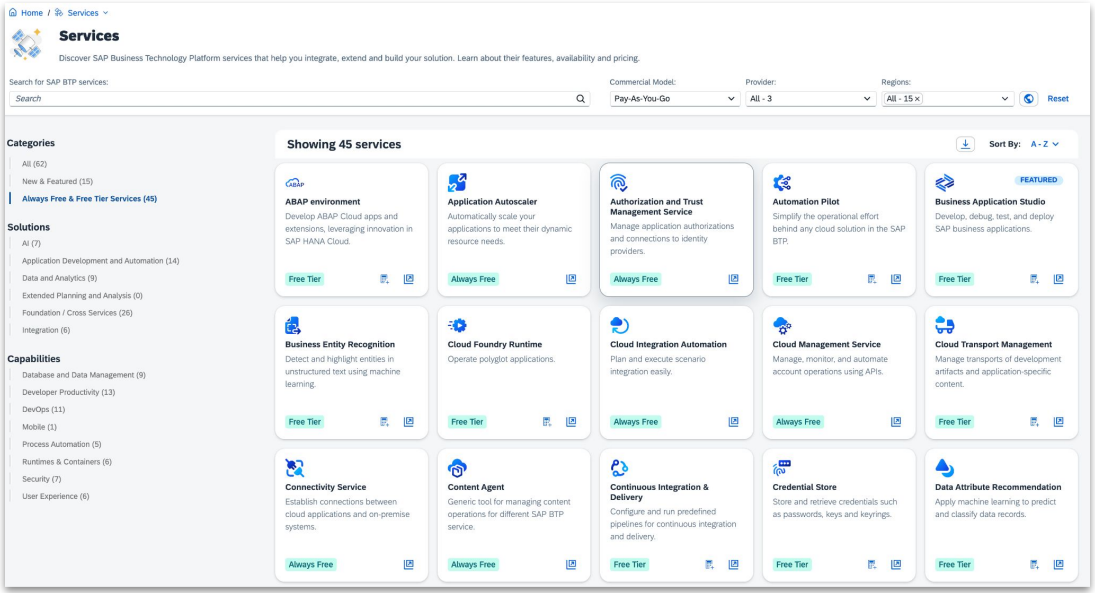
See buying conditions

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.

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.

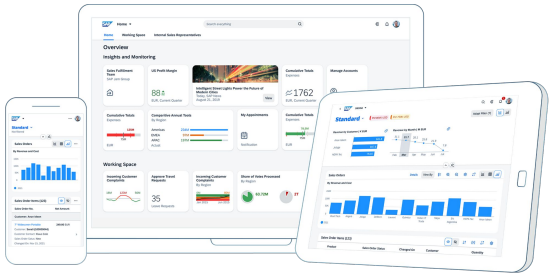
- Build process flows and automate manual tasks
- Use AI for intelligent document processing
- Develop with AI assistance and drag-and-drop simplicity
- Deliver faster with pre-built workflows, bots, and connectors

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

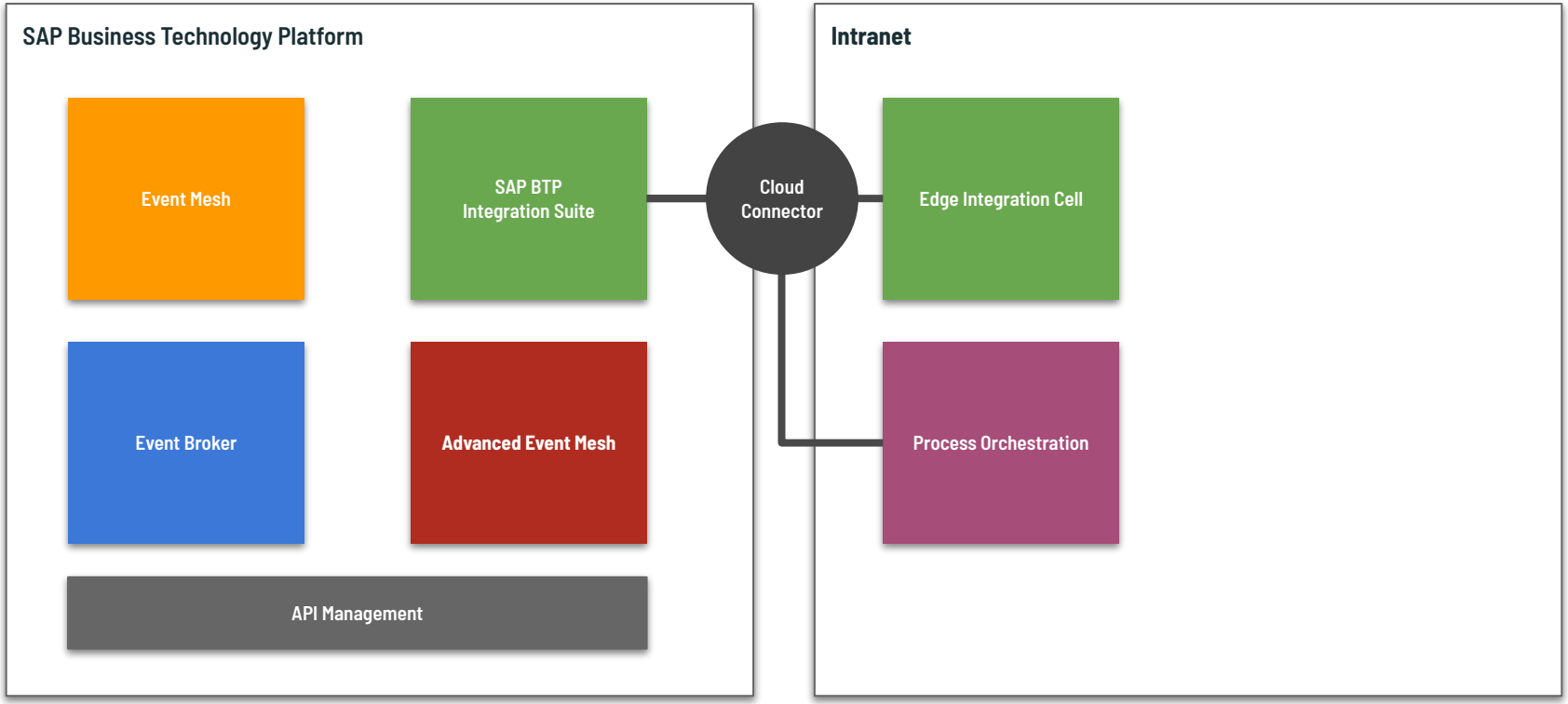
SAP Fiori



- Role-based, Coherent, Adaptive, Simple, Delightful
- Guidelines for Web, IOS, Android
- 3 main development options:
  - Freestyle Development
  - Fiori Elements
  - Flexible Programming Model

Integration

Integration Overview



Data & Analytics

Data & Analytics

SAP Analytics Cloud

Bring analytics and planning together with unique integration to SAP applications and smooth access to heterogeneous data sources.

SAP Datasphere

Make data meaningful with a single business semantic service unifying all data

SAP HANA Cloud

Identify, gather, analyze, and make the most context-relevant data available throughout your enterprise

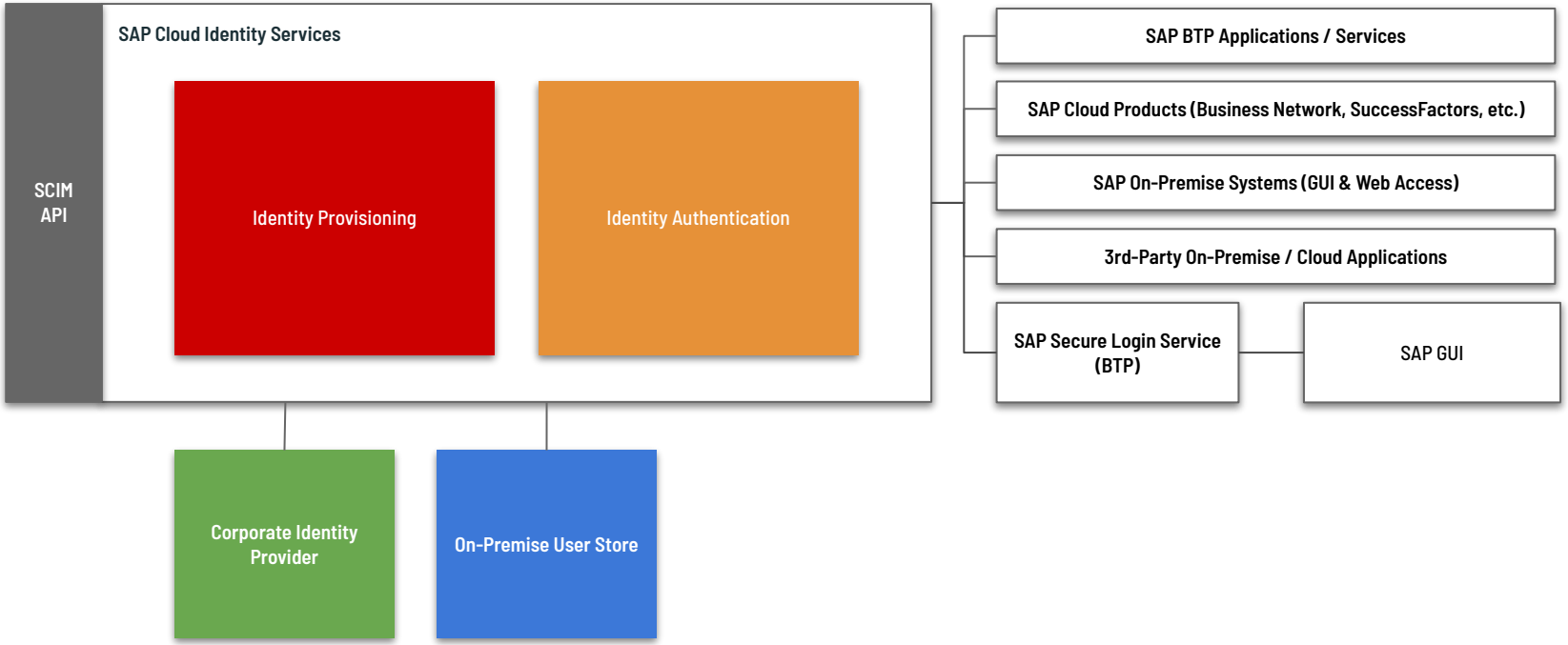
Artificial Intelligence

SAP AI Core

Execute Pipelines	Execute pipelines as a batch job, for example, to preprocess or train your models, or perform batch inference.
Serve inference requests	Deploy a trained machine learning model as a Web service to serve inference requests of trained models with high performance.
Manage the AI scenario lifecycle	Manage your ML artifacts and workflows, such as model training, metrics tracking, data, models, and model deployments via a uniform API lifecycle.
Benefit from multitenancy support	Use this service in tenant-aware applications. Implement multi-tenant services to segregate your AI assets and executions to isolate your tenants within SAP AI Core.
Integrate your cloud infrastructure	Register your Docker registry, synchronize your AI content from your git repository, and register your object store for training data and trained models. Productize your AI content and expose it as a service to consumers in the SAP BTP marketplace.
Generative AI Hub	Choose from a selection of generative AI models for prompt experimentation, and prompt lifecycle management.

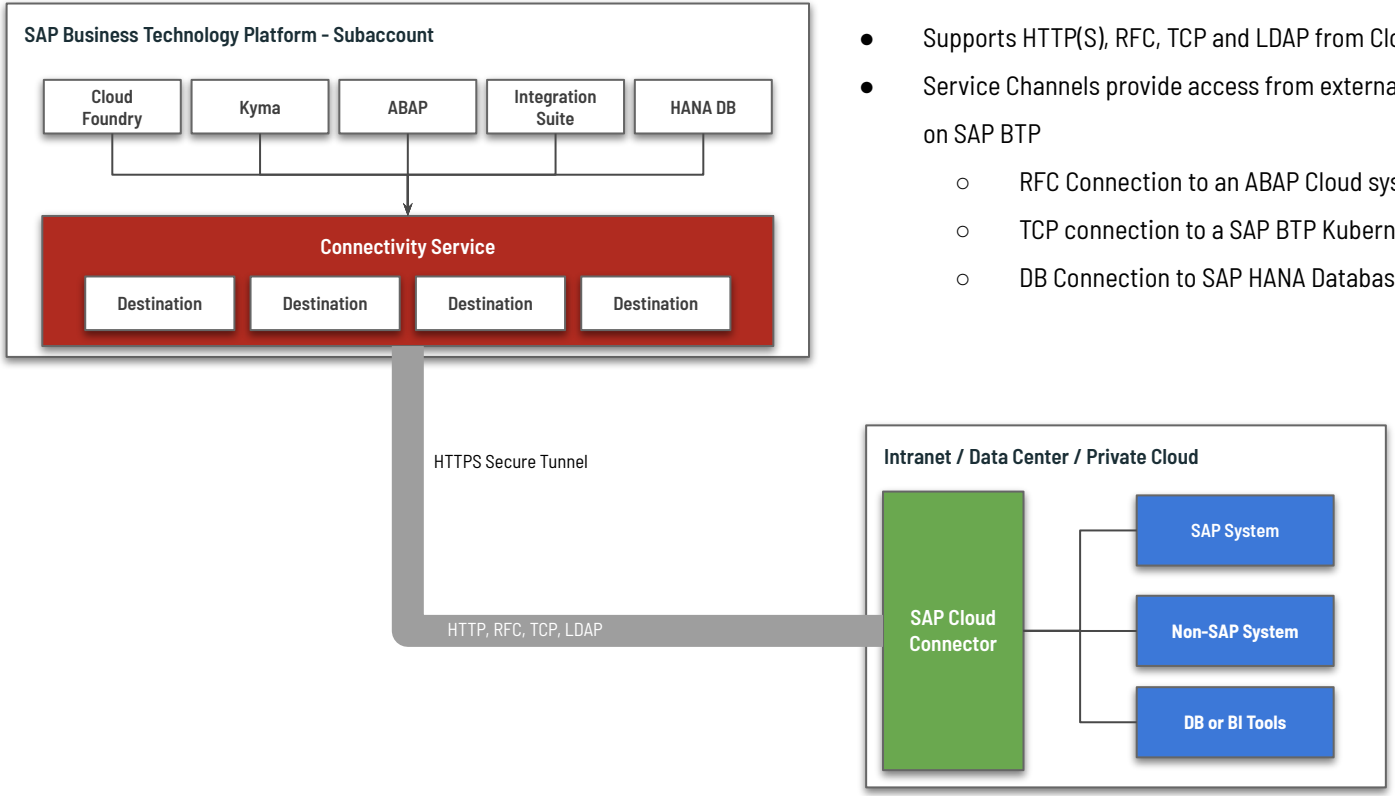
Security & Connectivity

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



- 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

https://x.com/abdulbasitg/
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