



# SAP Cloud Platform

## Cloud Foundry environment overview

PUBLIC

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# Cloud Foundry and Cloud Foundry Foundation

## What is Cloud Foundry?

Cloud Foundry is the industry standard open source cloud application platform for developing and deploying enterprise cloud applications. It automates, scales and manages cloud apps throughout their lifecycle. Applications can be written in just about any language and are deployed in container images on any infrastructure.

## What is Cloud Foundry Foundation?

The Cloud Foundry Foundation exists to drive the global awareness and adoption of the Cloud Foundry open source project, to grow a vibrant community of contributors, and to create coherence in strategy and action across all member companies for the sake of the project.

*Source: [cloudfoundry.org](https://cloudfoundry.org)*

# CLOUD FOUNDRY Foundation Membership

## Platinum:



## Gold:



Information from  
<https://cloudfoundry.org/members/>

# CLOUD FOUNDRY Foundation Membership

Silver:

acetti

ALTOROS™

anynines APPDYNAMICS

ak  
armakuni

Atos

BIARCA

Bloomberg

BNY MELLON

BOSCH

ca

cloudsoft

CODENVY

comcast.

docker

ECS  
TEAM  
ECS Team is now part of CGI.

ENGINEER  
BETTER>

evoila

f Fidelity  
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NIA NATIONAL  
INFORMATION SOCIETY  
AGENCY

orange™

PROXIMETRY

QIO

RBC

redislabs

Information from  
<https://cloudfoundry.org/members/>

resilient scale

snyk

STARK & WAYNE

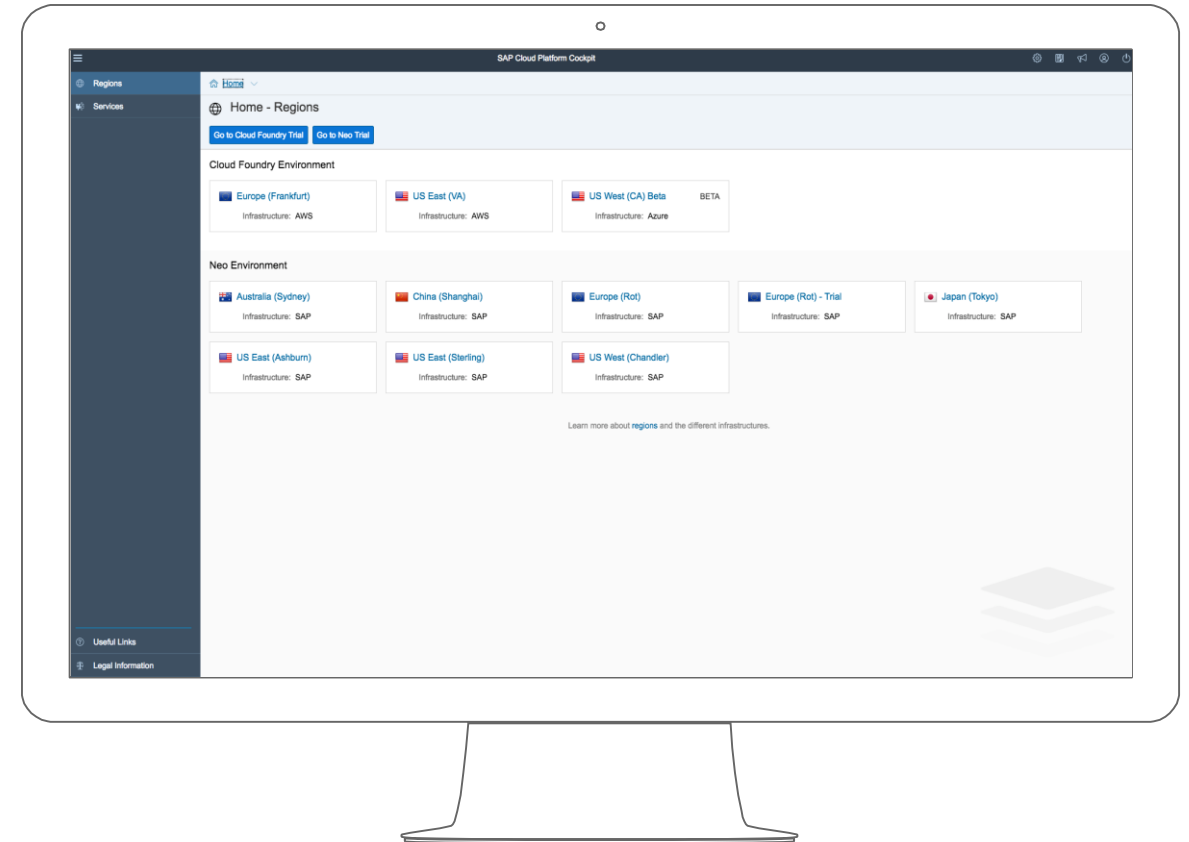
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# User Home

## Screenshot from cockpit

- ✓ You can select which environment to administer – Cloud Foundry or Neo
- ✓ For each environment there is a list of available regions



# Selected subaccount in Cloud Foundry environment

## Screenshot from cockpit

Region Global Account Subaccount

SAP Cloud Platform Cockpit

Home / Europe (Frankfurt) / i045825trial / trial

### Subaccount: trial - Overview

Subaccount Details

Subdomain: i045825trial

Cloud Foundry

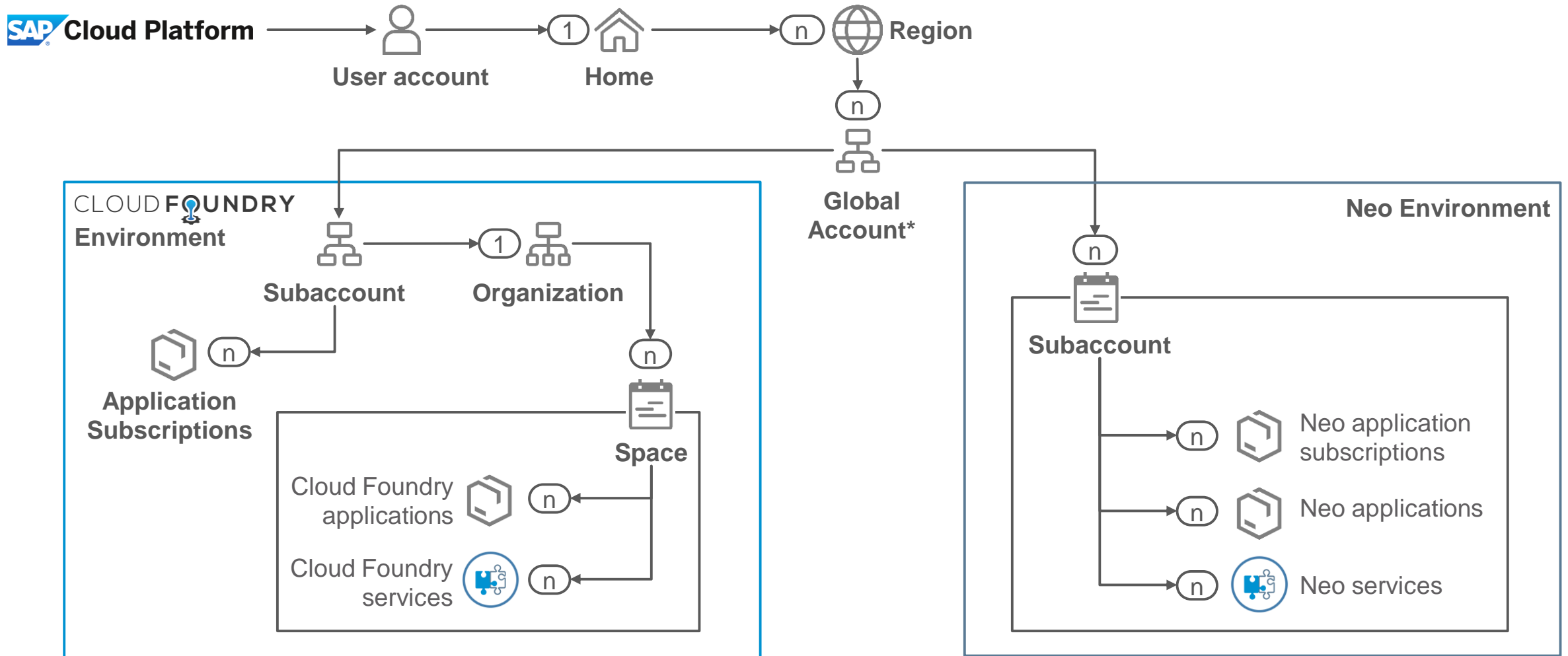
Organization: i045825trial\_trial  
Spaces: 3  
Members: 1

#### Quota

Description	Code	Amount
Application Runtime	MEMORY	1
HANA	hdi-shared	1
Job Scheduler	lite	1
MongoDB	dev	1
Portal Service	site	10
PostgreSQL	dev	1
RabbitMQ	dev	1
Redis	dev	1
SAP Cloud Platform, Connectivity Service, Lite plan (shared resources across all apps)	lite	1

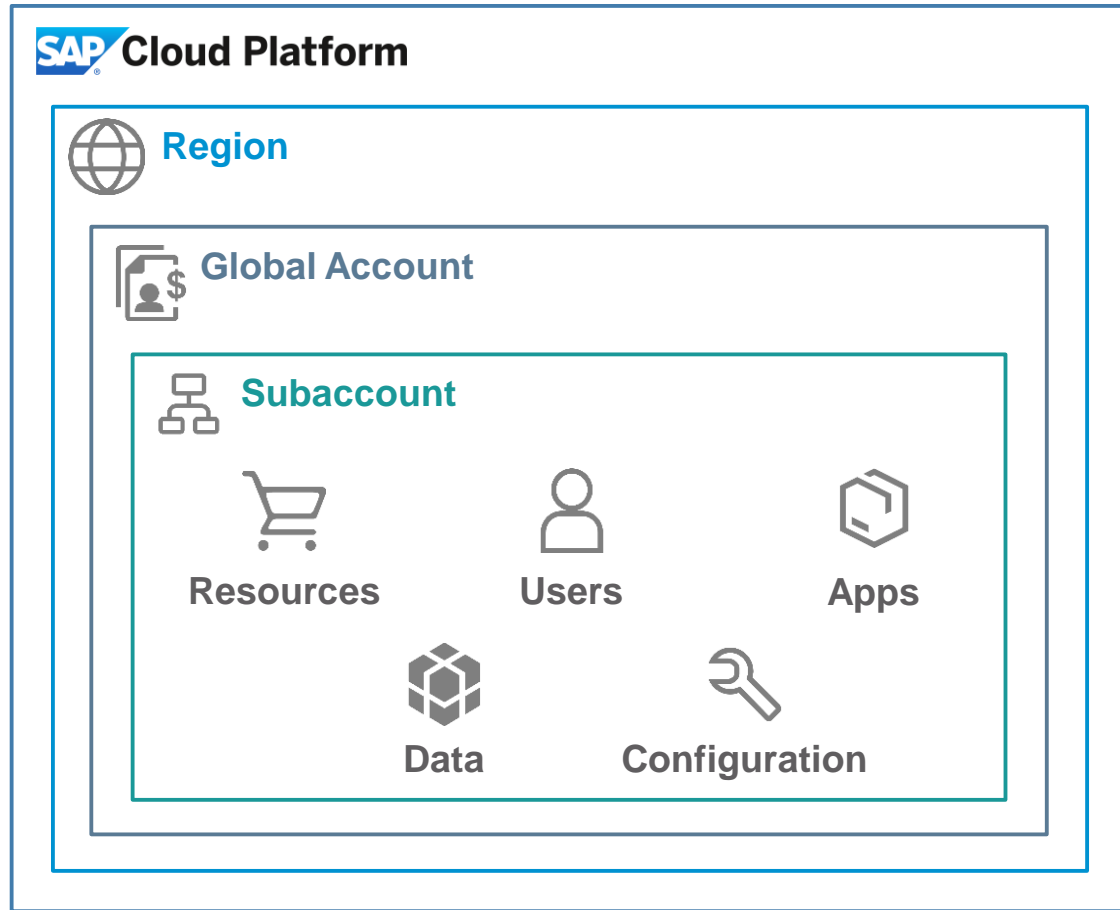
# Domain Model

## Current Scope





# Understanding SAP Cloud Platform Subaccounts

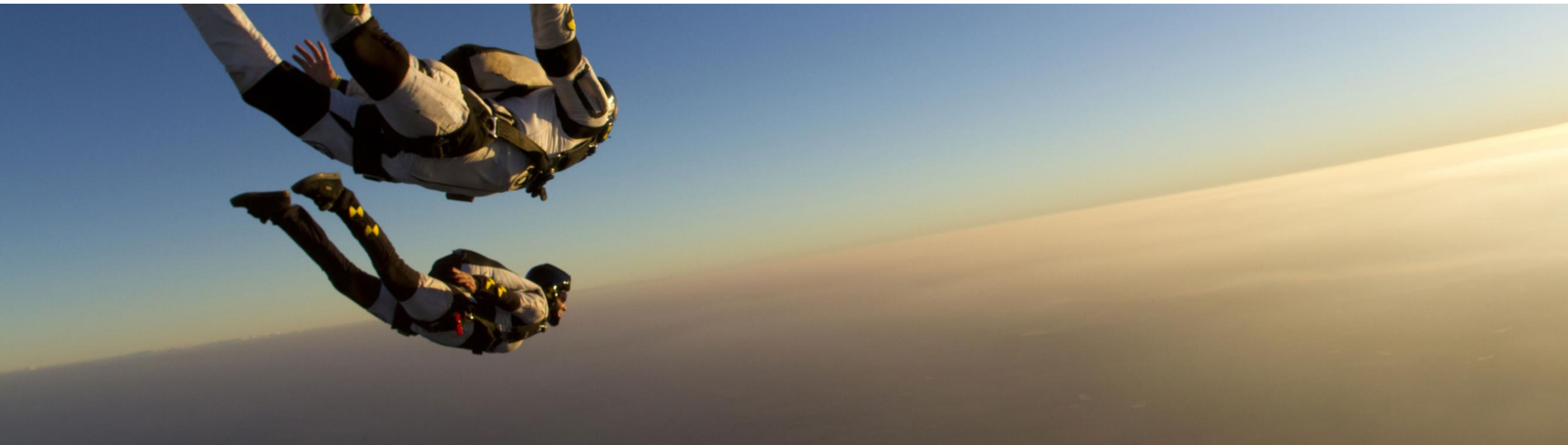


Each subaccount holds:

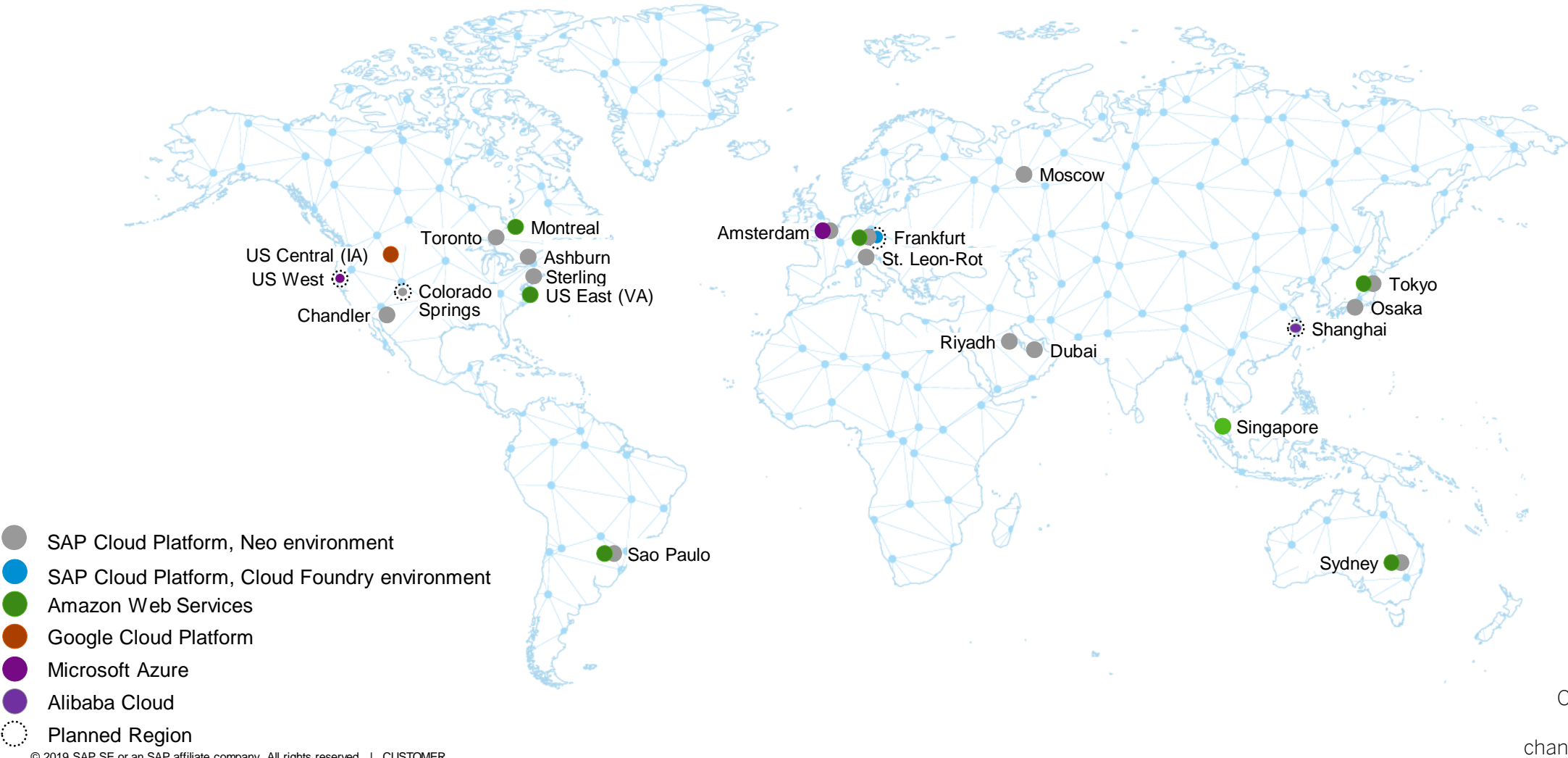
- **Resources** that can be consumed by apps
- **Users** allowed to work in the subaccount
- **Apps** deployed and running in the subaccount
- **Data** written by apps running in the subaccount
- **Configuration** for apps running in the subaccount

Each subaccount is assigned to a **Global account** and resides in a **Region**.

# Demo

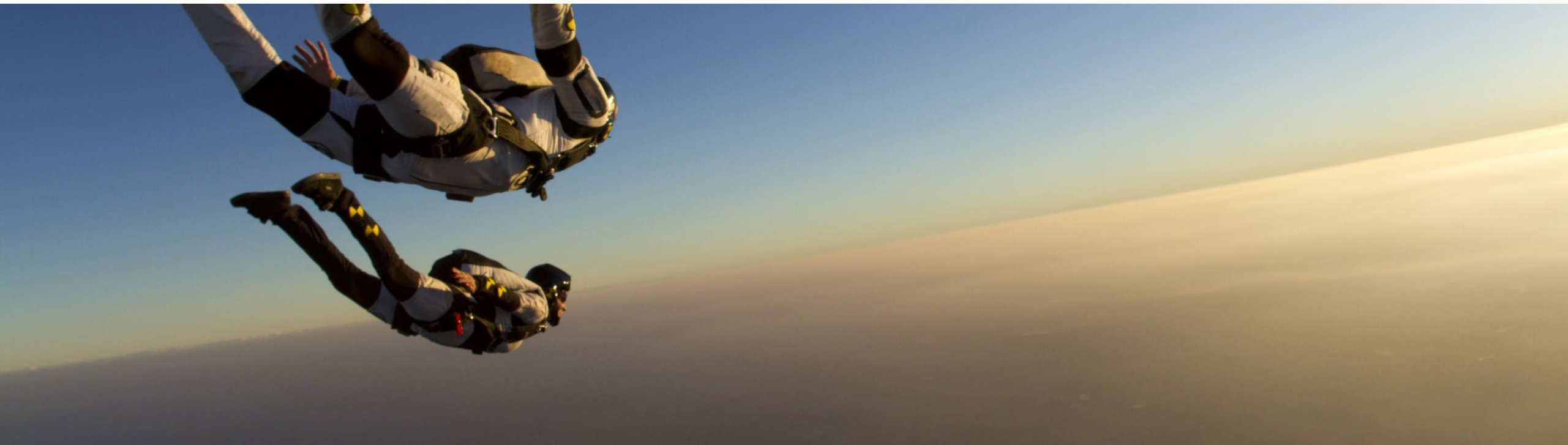


# SAP Cloud Platform Data Center Roadmap



Current state of planning  
(May 2019) and may be  
changed by SAP at any time.

# Technical Details



# Polyglot

## Multiple runtimes & languages with SAP Cloud Platform

SAP Cloud Platform is now a **polyglot** PaaS

„Polyglot: a person who knows and is able to use several languages”

Dictionary

- Multi-Language
- Enterprise support for selected buildpacks
- Cloud Foundry community buildpacks
- Bring your own buildpack



# Runtimes & Containers

## Overview

With Cloud Foundry environment, SAP Cloud Platform enables the usage of additional programming languages and frameworks via buildpacks\*



### Java

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



### HTML5

- Develop and run HTML5 applications
- Benefit from multiple SAPUI5 code templates



### Node.js

- Benefit from multiple Node.js packages available
- Develop and run Node.js applications in the cloud



### <your choice>

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

\* Note: There is Enterprise Support only for selected buildpacks.

# Buildpacks

## Technical Background

Buildpacks provide runtime and framework support for applications and examine user-provided artifacts to determine what dependencies to download and how to configure the applications to communicate with bound services.

Cloud Foundry can **technically support** any runtime either via:

- **system buildpacks** already deployed on Cloud Foundry
- **custom buildpacks** provided by the community, a third party or self-built

Learn more: <https://docs.cloudfoundry.org/buildpacks/>

### System Buildpacks

Cloud Foundry includes a set of system buildpacks for common languages and frameworks. This table lists the system buildpacks.

Name	Supported Languages, Frameworks, and Technologies	GitHub Repo
Java	Grails, Play, Spring, or any other JVM-based language or framework	<a href="#">Java source</a>
Ruby	Ruby, JRuby, Rack, Rails, or Sinatra	<a href="#">Ruby source</a>
Node.js	Node or JavaScript	<a href="#">Node.js source</a>
Binary	n/a	<a href="#">Binary source</a>
Go	Go	<a href="#">Go source</a>
PHP	Cake, Symfony, Zend, Nginx, or HTTPD	<a href="#">PHP source</a>
Python	Django or Flask	<a href="#">Python source</a>
Staticfile	HTML, CSS, JavaScript, or Nginx	<a href="#">Staticfile source</a>

Click on images to get to corresponding webpages

# Runtimes & Containers

## Bring your own language

There are a number of system buildpacks (beyond Java and Node.js) available in the Cloud Foundry environment that enable you to leverage various programming languages and frameworks\*

### Learn more about system buildpacks

- Python <https://docs.cloudfoundry.org/buildpacks/python/index.html>
- PHP → <https://docs.cloudfoundry.org/buildpacks/php/index.html>
- .NET Core → <https://docs.cloudfoundry.org/buildpacks/dotnet-core/index.html>
- Go → <https://docs.cloudfoundry.org/buildpacks/go/index.html>
- Ruby → <https://docs.cloudfoundry.org/buildpacks/ruby/index.html>
- Binary → <https://docs.cloudfoundry.org/buildpacks/binary/index.html>
- Staticfile → <https://docs.cloudfoundry.org/buildpacks/staticfile/index.html>



You can bring & use custom buildpacks\* – developed by the community, third-party vendor or self-built.

\* SAP does not provide Enterprise Support for these buildpacks as of today. Support for Python is planned for Q1 2018



# Questions & answers



**Thank you.**

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