



Connecting systems and services using  
SAP Integration Suite

# SAP CodeJam Warsaw

## September 22nd, 2023

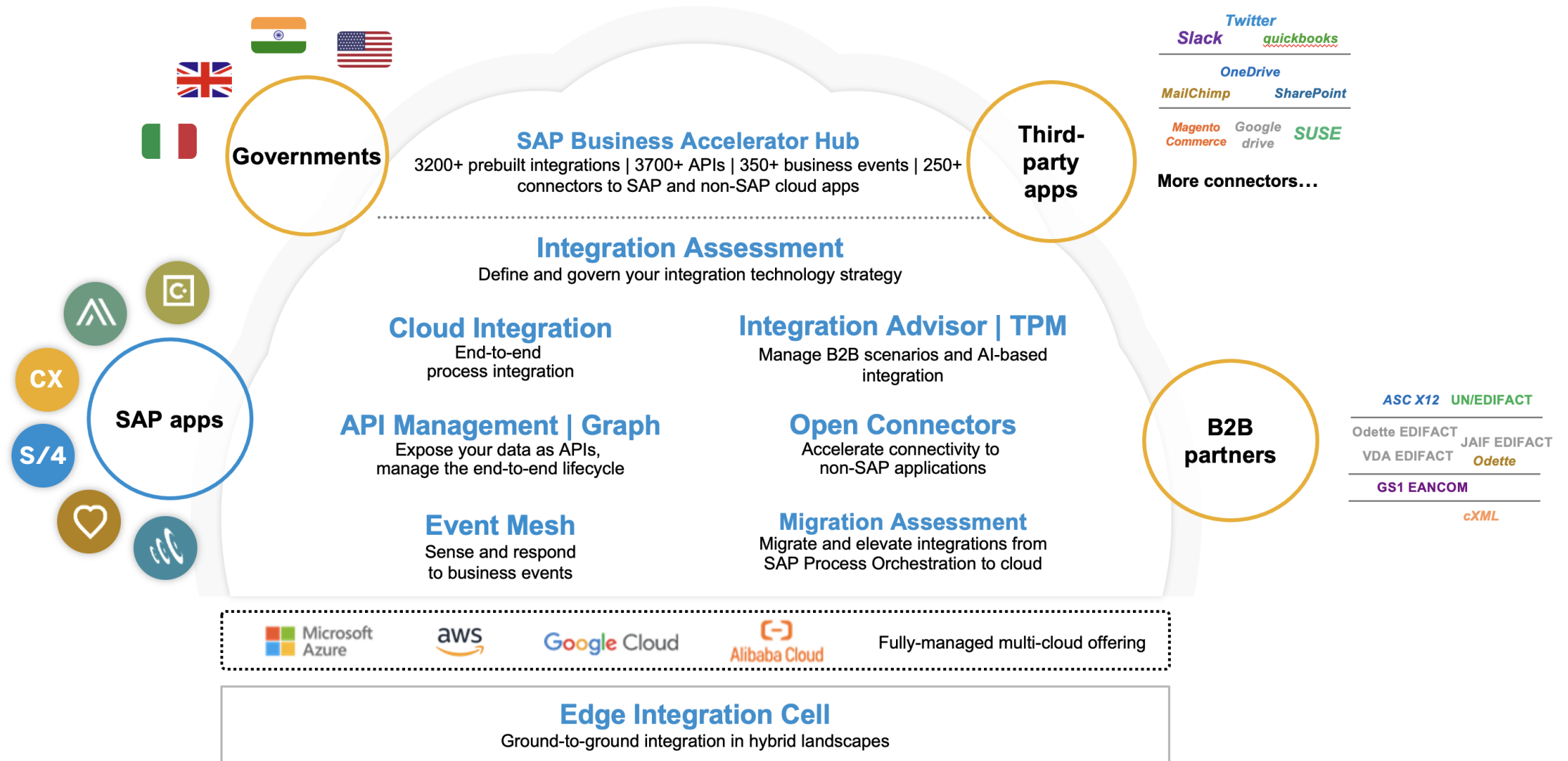


SAP Community  
Anniversary

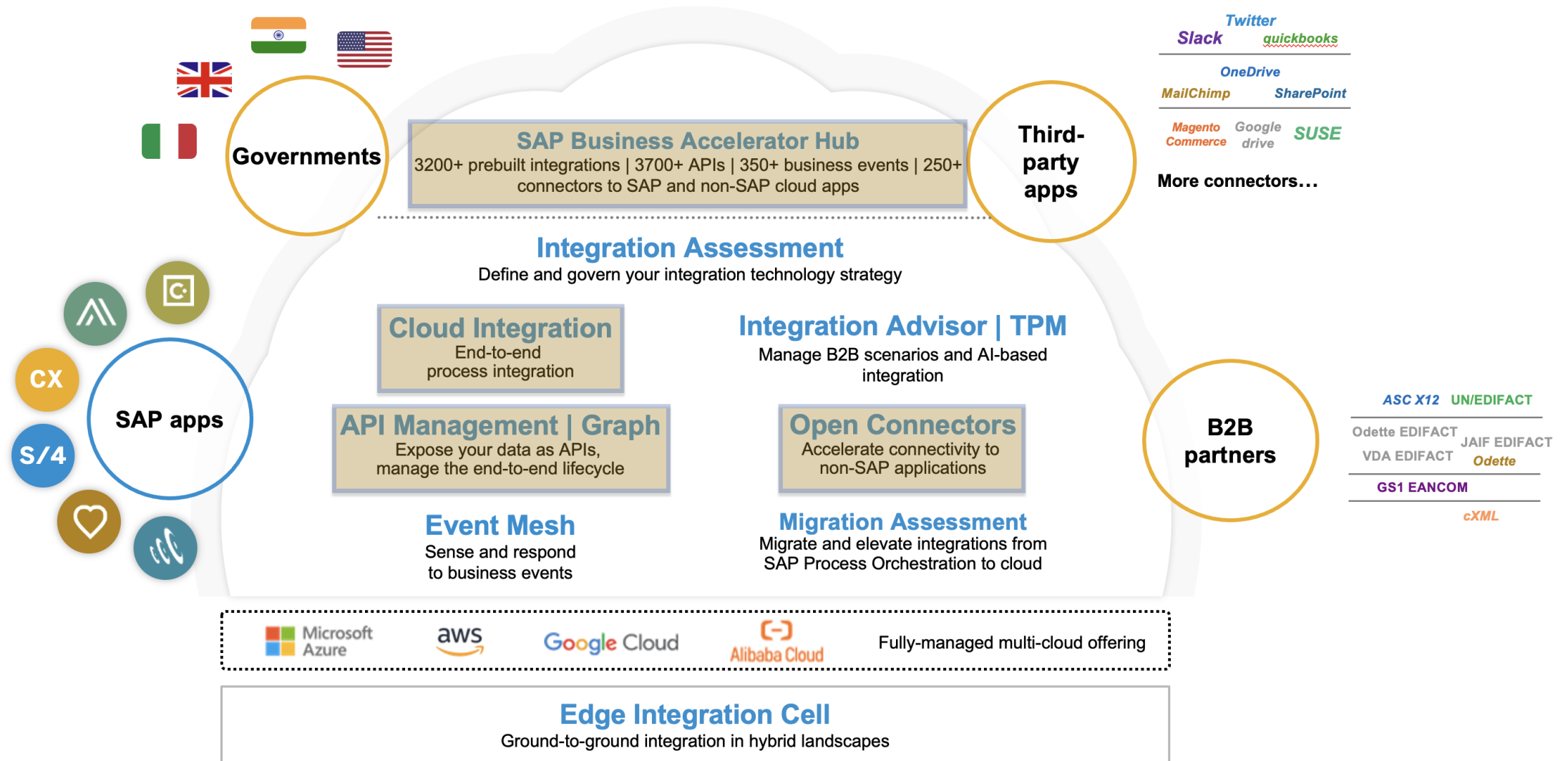
# SAP CodeJam - Agenda

- *13:00* - Introduction
- *13:30* - Exercise 01 - 04
- *15:00* - Break
- *15:30* - Exercise 05 - 08

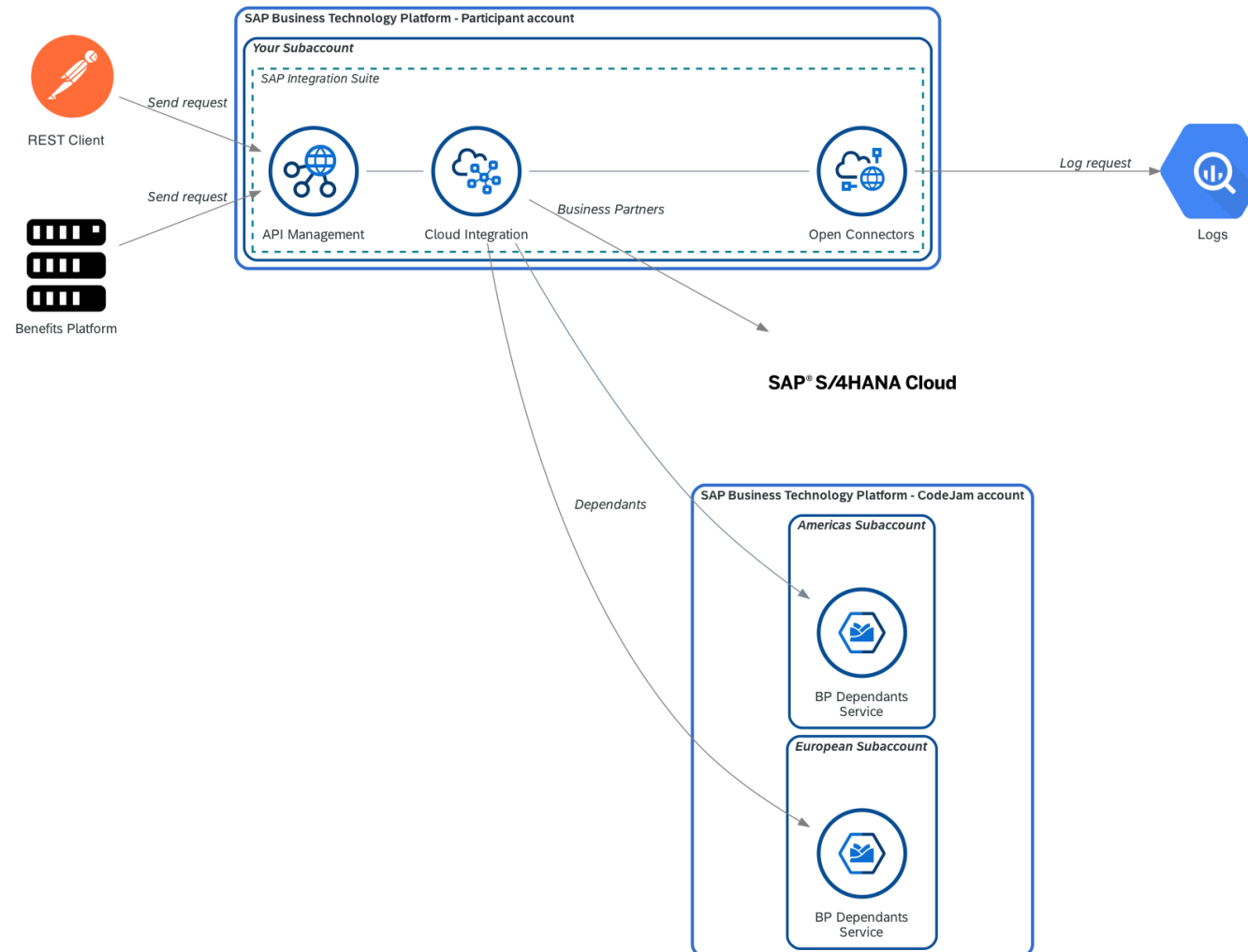
# SAP Integration Suite




# SAP Integration Suite




# SAP CodeJam - Integration scenario



# SAP CodeJam - Repository

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main 1 branch 0 tagsGo to fileAdd fileCode

 **ajmaradiaga** Removing Google Search console file ✓ fe84fdd 1 hour ago 157 commits

.github	Including .github folder	2 months ago
.reuse	Initial commit	2 months ago
LICENSES	Initial commit	2 months ago
assets	Flow with Cloud Connector configuration	5 days ago
exercises	Including details on the additional iflow via CC	5 days ago
.gitignore	Updating theme	16 days ago
LICENSE	Initial commit	2 months ago
README.md	Updating link to exercise titles	5 days ago
_config.yml	Switching title and description	16 days ago
prerequisites.md	Updating link to exercise titles	5 days ago
running-locally-prerequisites.md	Highlighting usage of Docker	5 days ago
troubleshooting.md	Including HTTP 404 and 405 errors	6 days ago


About


This repo contains the exercise instructions for the CodeJam based on SAP Integration Suite.

samplecodejamsap-integration-suite

ReadmeApache-2.0 licenseCode of conduct2 stars8 watching1 fork

Contributors 2

 **ajmaradiaga** Antonio Maradiaga

 **btbernard** Brian Bernard

# SAP CodeJam - Exercises

- Exercise 01 - Getting familiar with the SAP Business Accelerator Hub (20')
- Exercise 02 - Exploring the mock services (20')
- Exercise 03 - Build our first integration flow (30')
- Exercise 04 - Send messages and monitor our integration flow (20')
- Exercise 05 - Retrieve Business Partner dependant's information (30')
- Exercise 06 - Add the America's instance of the Business Partner Dependants service (30')
- Exercise 07 - Log service call in Google BigQuery (Open Connectors) (20')
- Exercise 08 - Expose integration flow via API Management (30')
- (Optional) Exercise 01 - Running locally services used in CodeJam

# Exercise 01 - Getting familiar with the SAP Business Accelerator Hub (20')

The screenshot displays the SAP API Business Hub interface. At the top, the header includes the SAP logo, 'API Business Hub', and navigation links: 'Explore', 'Resources', 'Discover Integrations', and 'Partner with Us'. A toggle for 'New SAP API Business Hub' is set to 'On'. Below the header, a banner for 'SAP S/4HANA Cloud' features the text: 'The next generation digital core designed to help you run simple in a digital economy. It provides the industry-specific capabilities and cloud benefits that your business needs.'

The main navigation bar contains tabs: 'Overview', 'APIs' (highlighted with an orange box), 'Events', 'CDS Views', 'Developer Extensibility', 'Integrations', 'Business Process', and 'Workflow Management'. Below this, a secondary navigation bar shows 'Packages', 'All' (highlighted with an orange box), 'SOAP', 'ODATA V2', 'ODATA V4', and 'REST'.

The results section shows 'Showing 1 of 4 results'. Navigation controls include 'View All Results', '< Previous', 'Page 1 of 4', 'Next >', and 'Sort by: A-Z'. A search bar (highlighted with an orange box) contains the text 'Business Partner'.

Three API cards are displayed:

- Business Partner (A2X)** (highlighted with a green box): ODATA V2 API. Description: 'Create, read, update or delete the master data for business partner, supplier or customer using this synchronous inbound service'. Version 1.2.1.
- Contract Accounting Business Partner Payment – Manage**: ODATA V4 API. Description: 'Retrieve a list of payments in Contract Accounting (FI-CA) and make, release or withdraw payments from your SAP S/4HANA Cloud system with this synchronous inbound service'. Version 2.0.0.
- Contract Accounting Business Partner Payment – Manage**: ODATA V4 API. Description: 'Retrieve a list of payments in Contract Accounting (FI-CA) and make, release or withdraw payments from your SAP S/4HANA Cloud system with this synchronous inbound service'. Version 1.1.0.

A vertical 'FEEDBACK' button is located on the right side of the interface.



# Exercise 02 - Exploring the mock services (20')

Explore  [Invite](#) [Upgrade](#)

Overview [GET All Business Partners](#) + ... S4-BP-Mock-Server

connecting-services-integration-suite-cod... / s4-bp-mock-ser... / All Business Partn... [Save](#) [Send](#)


**GET** [Send](#) [Cookies](#)

[Params](#) [Authorization](#) [Headers \(7\)](#) [Body](#) [Pre-request Script](#) [Tests](#) [Settings](#)

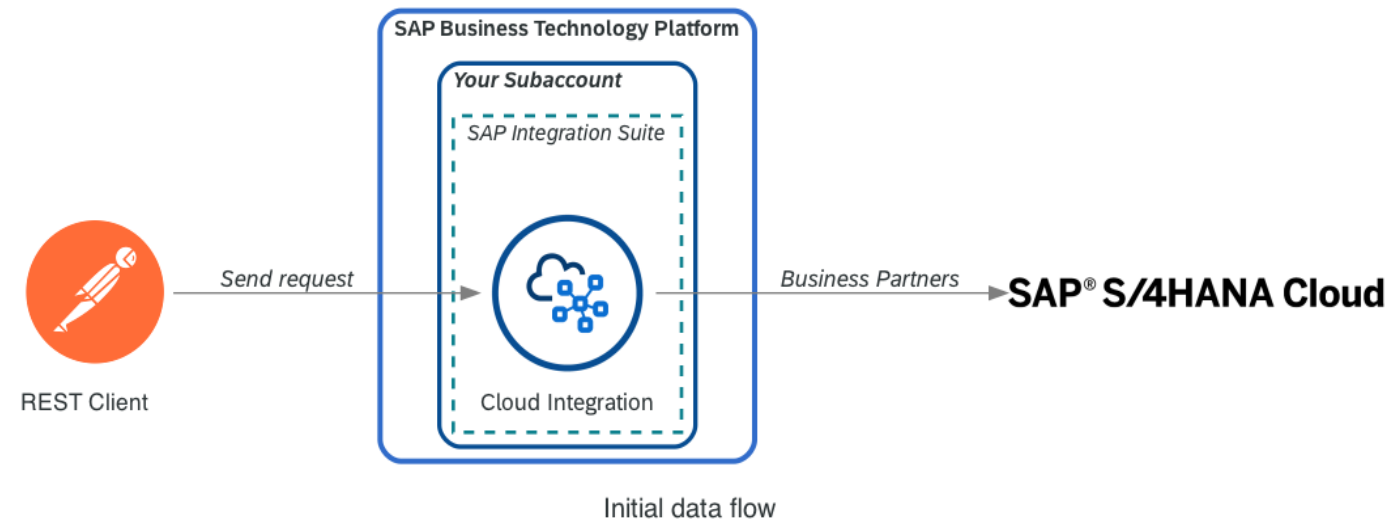
Query Params

KEY	VALUE	DESCRIPTION	...	Bulk Edit
Key	Value	Description		

Response

  
Click Send to get a response

# Exercise 03 - Build our first integration flow (30')



# Exercise 04 - Send message and monitor our integration flow (20')

The screenshot displays the SAP Cloud Integration Studio interface. On the left, the 'Mock Servers' sidebar shows a collection of mock services, with 'GET Request Employee Dependants' selected. The main workspace is configured for a REST client with the following details:

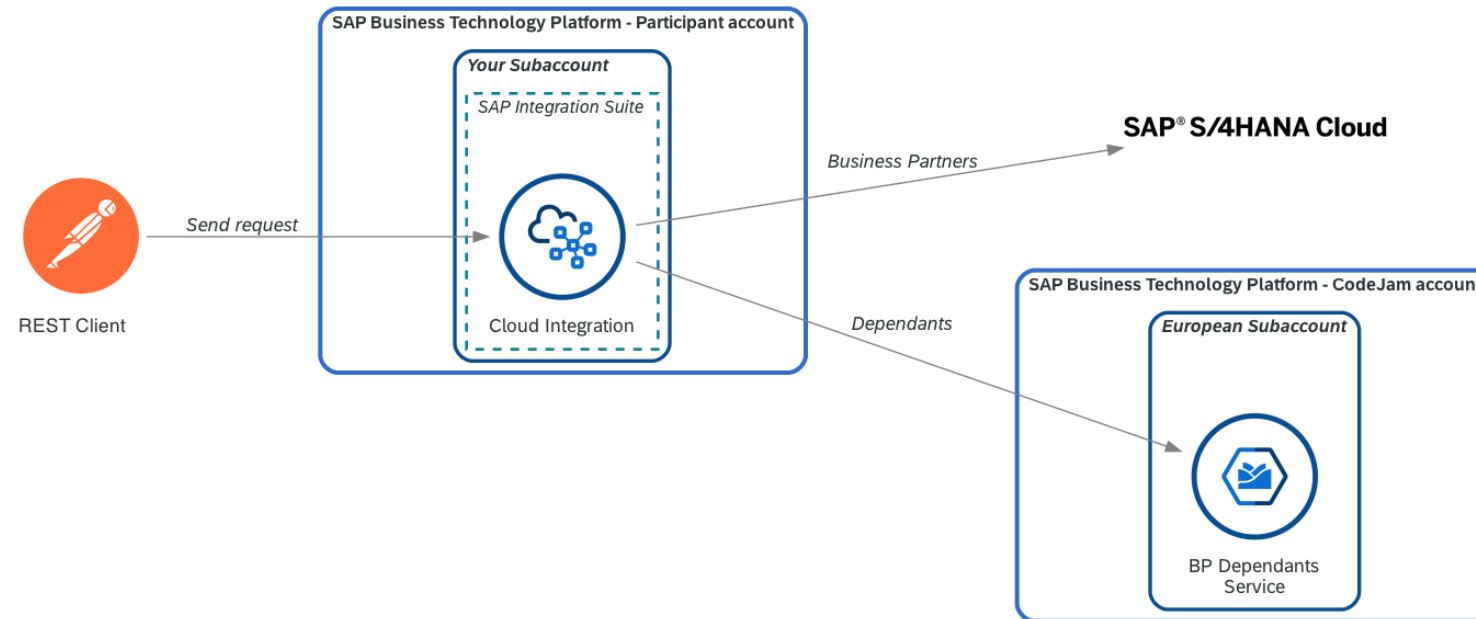
- Method:** GET
- URL:** `{{host}}/http/request-employee-dependants`
- Body:**

```
{
  "employee_id": "1003764"
}
```
- Instance:** PI-RT-DevAdvocatesFreeTier [Cloud Integration Instance]

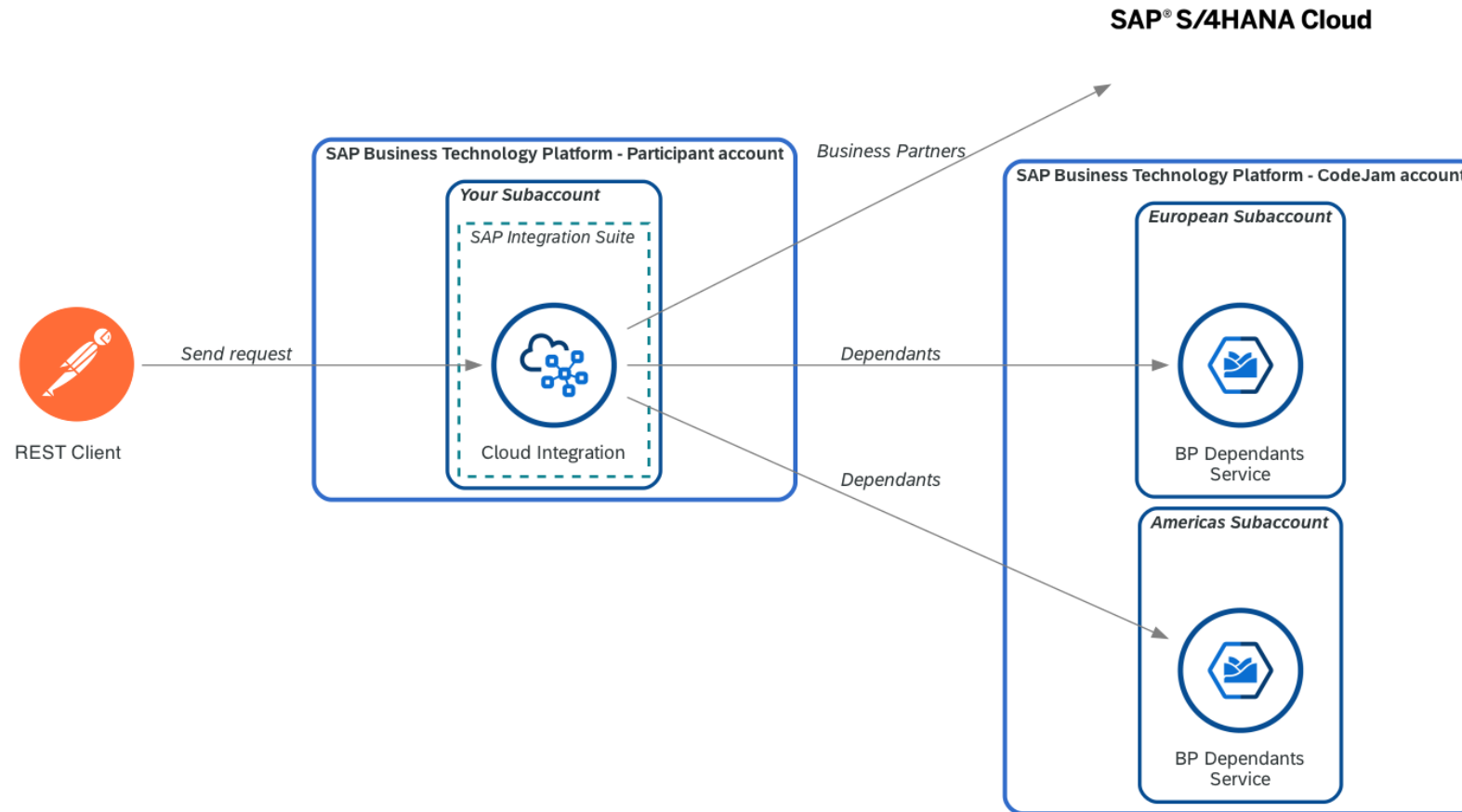
The 'Send' button is highlighted with a green box. Below the configuration, the response is shown in the 'Body' tab, indicating a successful 200 OK status with a response time of 1054 ms and a size of 6.63 KB. The response body is displayed in JSON format:

```
1 {
2   "d": {
3     "__metadata": {
4       "id": "http://s4-mock-server-service.default.svc.cluster.local:443/sap/opu/odata/sap/
5       API_BUSINESS_PARTNER/A_BusinessPartner('1003764')",
6       "uri": "http://s4-mock-server-service.default.svc.cluster.local:443/sap/opu/odata/
7       sap/API_BUSINESS_PARTNER/A_BusinessPartner('1003764')",
8       "type": "API_BUSINESS_PARTNER.A_BusinessPartnerType"
9     },
10    "BusinessPartner": "1003764",
11    "Customer": "",
12    "Supplier": ""
13  }
14 }
```

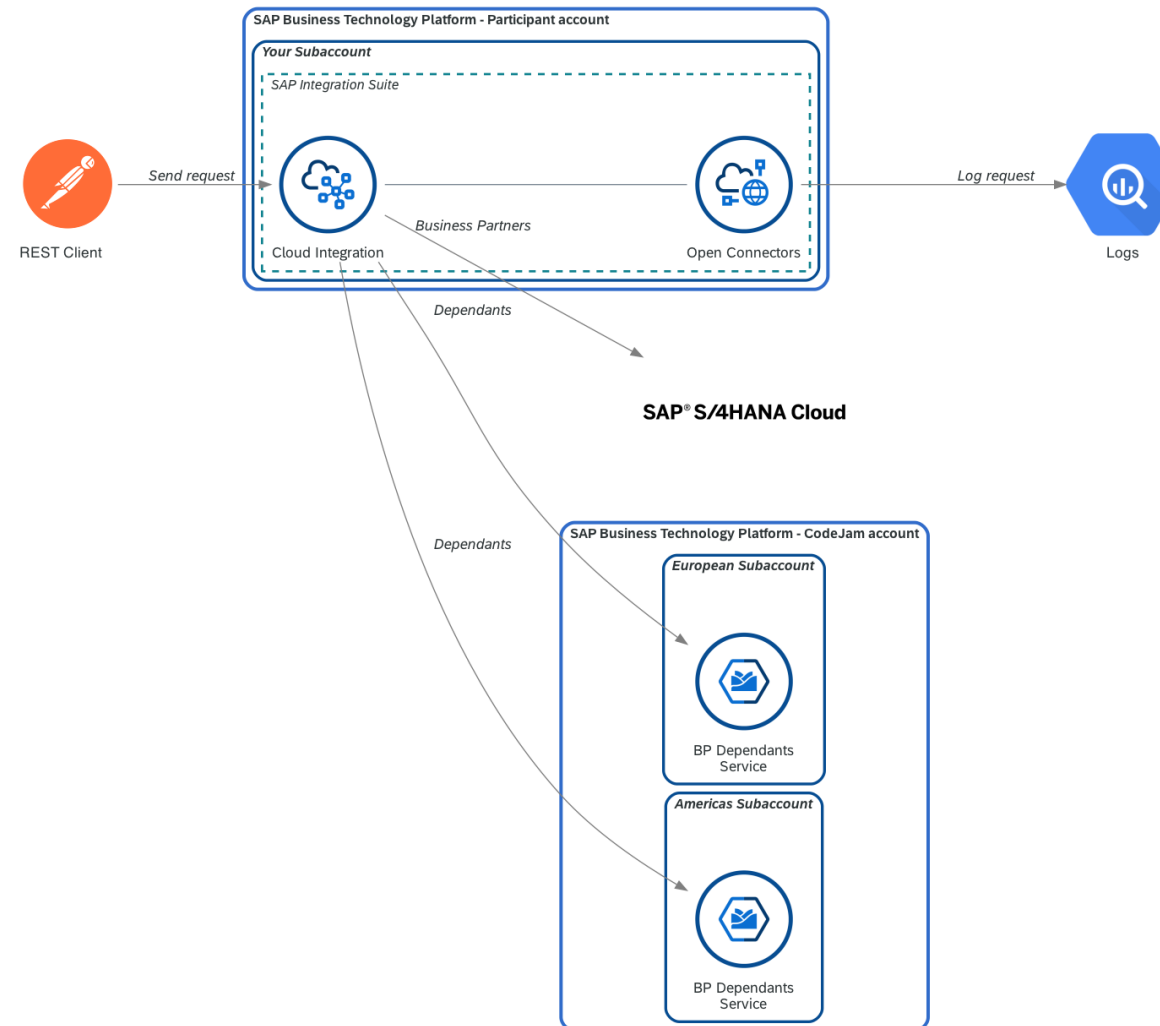
# Exercise 05 - Retrieve Business Partner dependant's information (30')



# Exercise 06 - Add the America's instance of the Business Partner Dependants service (30')



# Exercise 07 - Log service call in Google BigQuery (20')



# Exercise 08 - Expose integration flow via API Management (30')

[illegible]

**Thanks for  
attending!!!**

