



Connecting systems and services using
SAP Integration Suite

SAP CodeJam Zagreb

February 15, 2024



SAP Community
Anniversary

SAP Developer Advocates

We help developers be successful.

We do that by engaging with the community and **creating and presenting content designed to help developers discover, understand and adopt SAP technologies.**

Our aim is to **maintain communications in both directions**, to understand what developers need to know, listen to what developers have to say, and represent what we hear back into SAP product development.

<https://developers.sap.com/developer-advocates.html>

SAP Developer Advocates

Personal Insights



Thomas Jung   

May 20, 2022 | 7 minute read

Star Wars App – No-Code Challenge

1 comment 16 likes 1,961 views

Follow

Like

RSS Feed

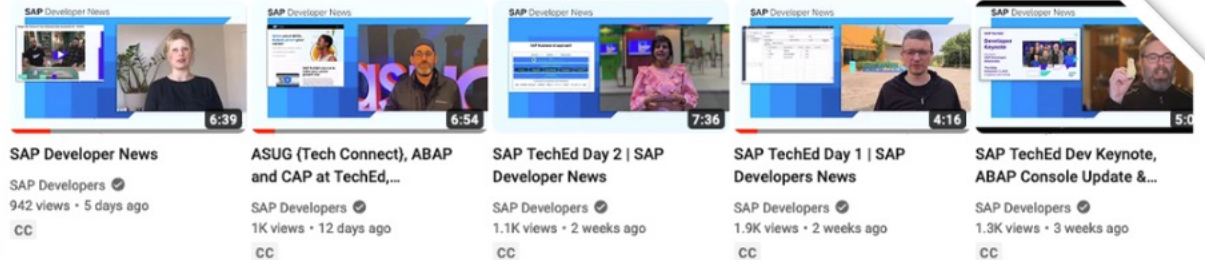
This blog post describes my participation in the [No-Code Challenge](#). If you aren't familiar with the challenge, please check out the blog post by [Daniel Wroblewski](#) for the full details. But in short, it's an opportunity to get to know [SAP AppGyver](#) a little better and share what you were able to build with the SAP Community.

My goal was to build a mobile app that allowed me to view Star Wars data originally sourced from the public [Wookieepedia](#). You never know when you might be out and about and need to quickly lookup the climate of a planet from Star Wars. Ok, maybe not the most business-critical app, but one I certainly enjoy playing around with.

SAP Developer News

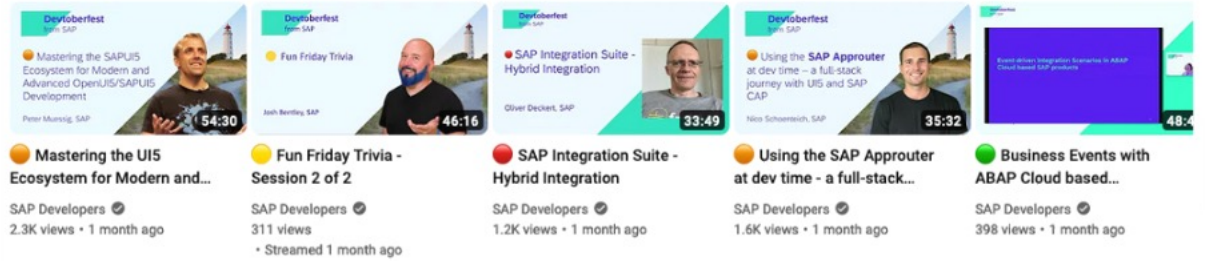
SAP Developer News

SAP Developer show for weekly updates on the latest happening in the SAP developer world in about 5 minutes.



Devtoberfest

Watch the recordings of the tech talks and live discussions with the experts for tips and best practices to improve your code, trends and industry insights, and more.



SAP Developer Shows



<https://developers.sap.com/developer-advocates.html>

SAP Developer Advocates

Devtoberfest from SAP



HOW TO PLAY
IT'S SIMPLE. DESIGNER FOR
ENTERTAINMENT PURPOSES ONLY.
COMPLETE INSTRUCTIONS ARE AVAILABLE
ON THE EVENT WEBSITE.

MAKING THE LAWYERS HAPPY
THIS GAMEWAS IS OFFERED FOR
ENTERTAINMENT PURPOSES ONLY.
THE ACTUAL PRODUCT VALIDATION FOR
DEVTOBERFEST LEVELS AND CONTENT
WILL BE PROVIDED BY SAP.



Today		
Sun	Mon	Tue
17	18	19
<ul style="list-style-type: none">Overview of ABAP CloudMaking SAP Extensibil...ABAP Cloud for Classic ...Capire: Introduction, En...	<ul style="list-style-type: none">Start Your Journey with...From Idea to Reality: S...Custom UI & Theming ...	
24	25	26
<ul style="list-style-type: none">SAP CAP in Flight: BTP ...How to Clean your ABA...SaaS Enablement for C...What's New in the ABA...Introduction to Embed...	<ul style="list-style-type: none">Start Automating Your...What's New in SAP Bu...Add Event-Based Trigg...Introducing Enterprise...The Build Store: Let Pre...	
Today		
Sun	Mon	Tue
1	2	3
<ul style="list-style-type: none">Business Events with A...Consume SAP S/4HAN...Hello, ABAP Cloud!SAP Cloud Application ...	<ul style="list-style-type: none">Collaborate to Build S...Custom mashups in SA...Empowering SAP Build ...More Cool Integrations ...	<ul style="list-style-type: none">Keep your SAP S/4HAN...Core XML sta...Building a Robust and S...SAP Integration Suite ...

24-Nov-2023 · SAP CodeJam

🇪🇸 SAP CodeJam BTP: Hands-on with the btp CLI and APIs (Barcelona, Spain)

This SAP CodeJam BTP event is on the Core Service APIs for SAP BTP and also the command line interface tool for SAP BTP, otherwise known as the btp CLI. This is an in-person event only (not virtual) and is planned f...

Physical

📍 SAP, Torre Diagonal Mar, C/ de Josep Pla, 2 13, 08019 Barcelona, Spain

You are attending

27 attending 2 0

30-Nov-2023 · SAP CodeJam

🇮🇳 SAP CodeJam ABAP: SAP BTP, ABAP Environment & RAP

Note: We have reached our maximum registration capacity and RSVP for this event is now closed. For those who could not sign up this time, please wait for the next announcement in this region. This CodeJam instance...

Physical

📍 Cyber Park, Electronic City Phase I, Electronics City Phase 1, Electronic City, Bengaluru, Karnataka, India

44 attending 6 2

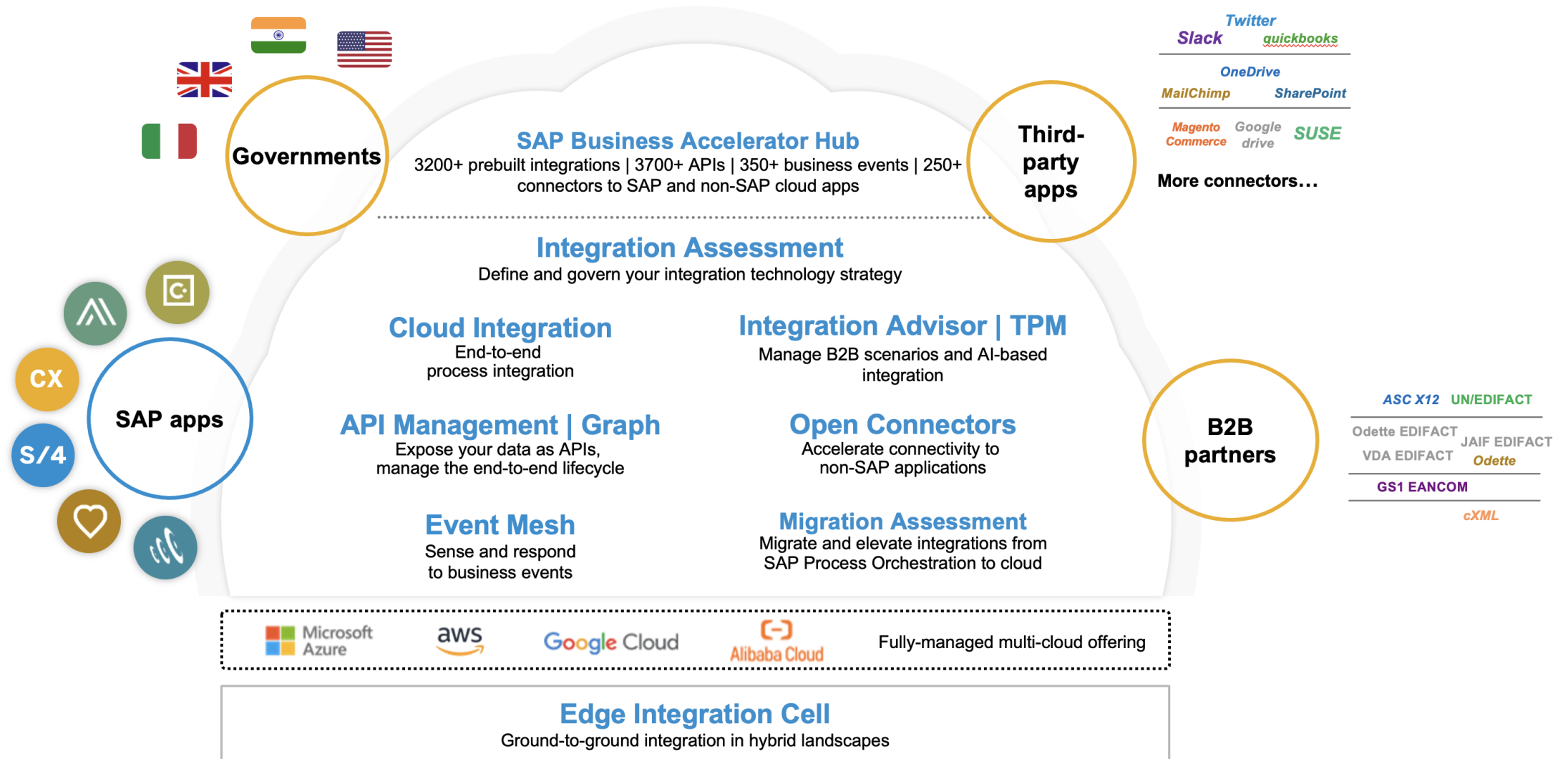


<https://developers.sap.com/developer-advocates.html>

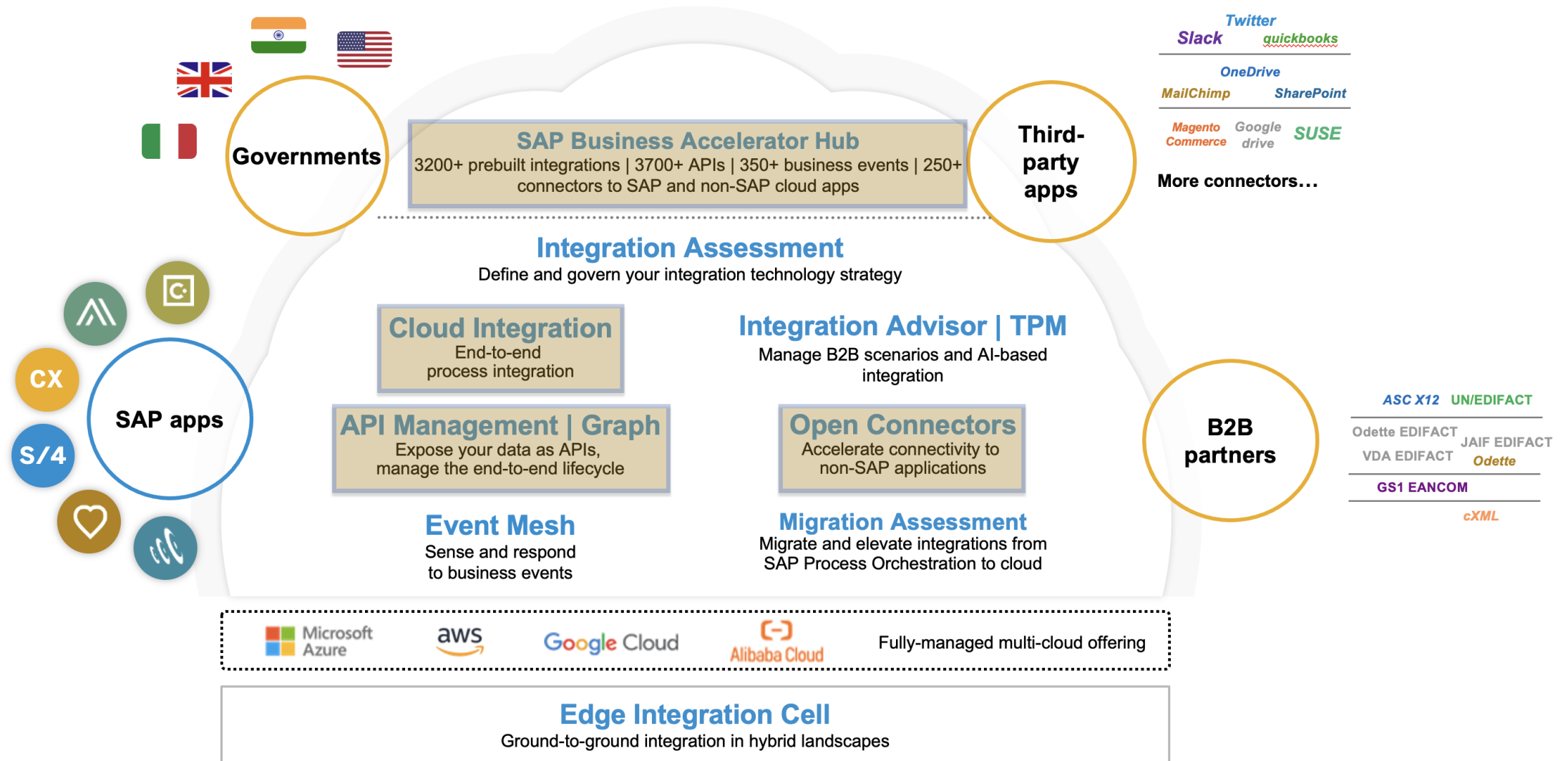
SAP CodeJam - Agenda

- *14:00* - Introduction
- *14:30* - Exercise 01 - 04
- *16:00* - Break
- *16:30* - Exercise 05 - 06

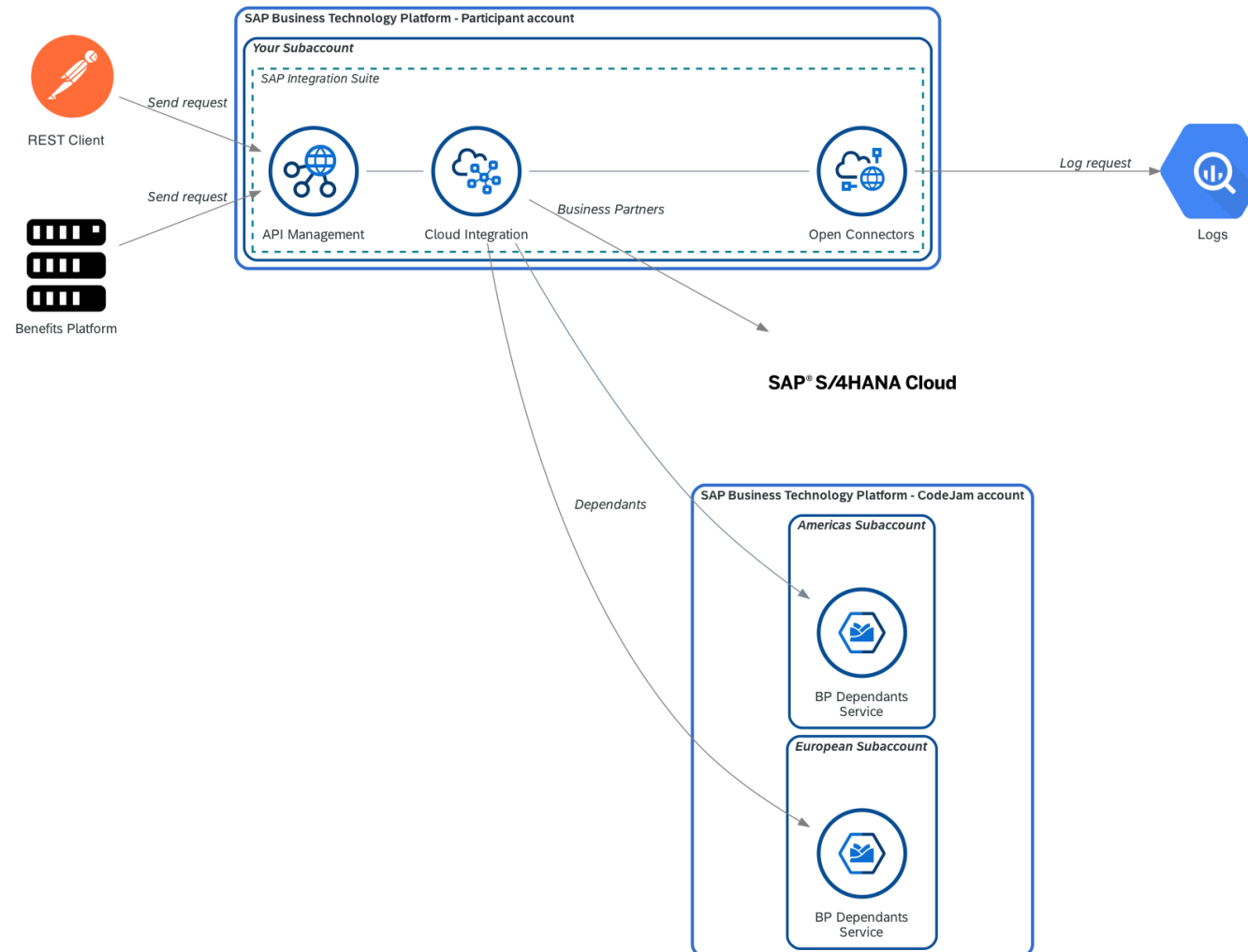
SAP Integration Suite




SAP Integration Suite




SAP CodeJam - Integration scenario



SAP CodeJam - Repository


 Search or jump to... / Pull requests Issues Marketplace Explore

 **SAP-samples / connecting-systems-services-integration-suite-codejam** Public

Edit Pins Unwatch 8

<> Code Issues Pull requests Actions Projects Wiki Security Insights Settings

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 04.1 - Retrieve Business Partner dependant's information (45')
 - Exercise 04.2 - Add the America's instance of the Business Partner Dependants service (30')
- Exercise 05 - Log service call in Google BigQuery (Open Connectors) (20')
- Exercise 06 - 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' is visible. The main navigation bar features tabs: 'Overview', 'APIs' (highlighted with an orange box), 'Events', 'CDS Views', 'Developer Extensibility', 'Integrations', 'Business Process', and 'Workflow Management'. A secondary filter bar shows 'Packages' and 'All' (highlighted with an orange box), along with 'SOAP', 'ODATA V2', 'ODATA V4', and 'REST'. The results section shows 'Showing 1 of 4 results' and navigation controls: '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: 1. 'Business Partner (A2X)' with an 'ODATA V2 API' tag, a description about master data management, and version '1.2.1' (this card is highlighted with a green box). 2. 'Contract Accounting Business Partner Payment – Manage' with an 'ODATA V4 API' tag, a description about payment management, and version '2.0.0'. 3. 'Contract Accounting Business Partner Payment – Manage' with an 'ODATA V4 API' tag, a description about payment management, and version '1.1.0'. A vertical 'FEEDBACK' button is on the right side.

SAP API Business Hub

Explore Resources Discover Integrations Partner with Us

New SAP API Business Hub ☒

SAP S/4HANA Cloud

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.

Overview **APIs** Events CDS Views Developer Extensibility Integrations Business Process Workflow Management

Packages **All** SOAP ODATA V2 ODATA V4 REST

Showing 1 of 4 results

[View All Results](#) < Previous Page 1 of 4 Next > Sort by: A-Z

Business Partner

Business Partner (A2X) ODATA V2 API

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

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

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

FEEDBACK

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](#) [Edit](#) [Share](#)


GET [Send](#)

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

Query Params

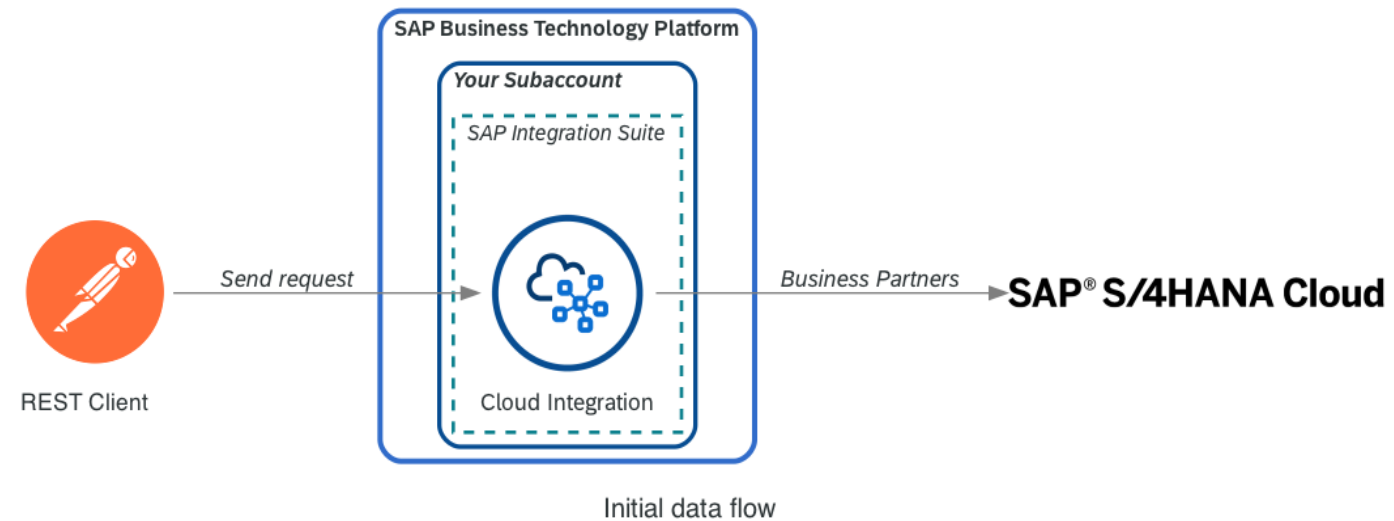
KEY	VALUE	DESCRIPTION	...	Bulk Edit
Key	Value	Description		

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, including 'GET Request Employee Dependants'. The main workspace is configured for a REST client with the following details:

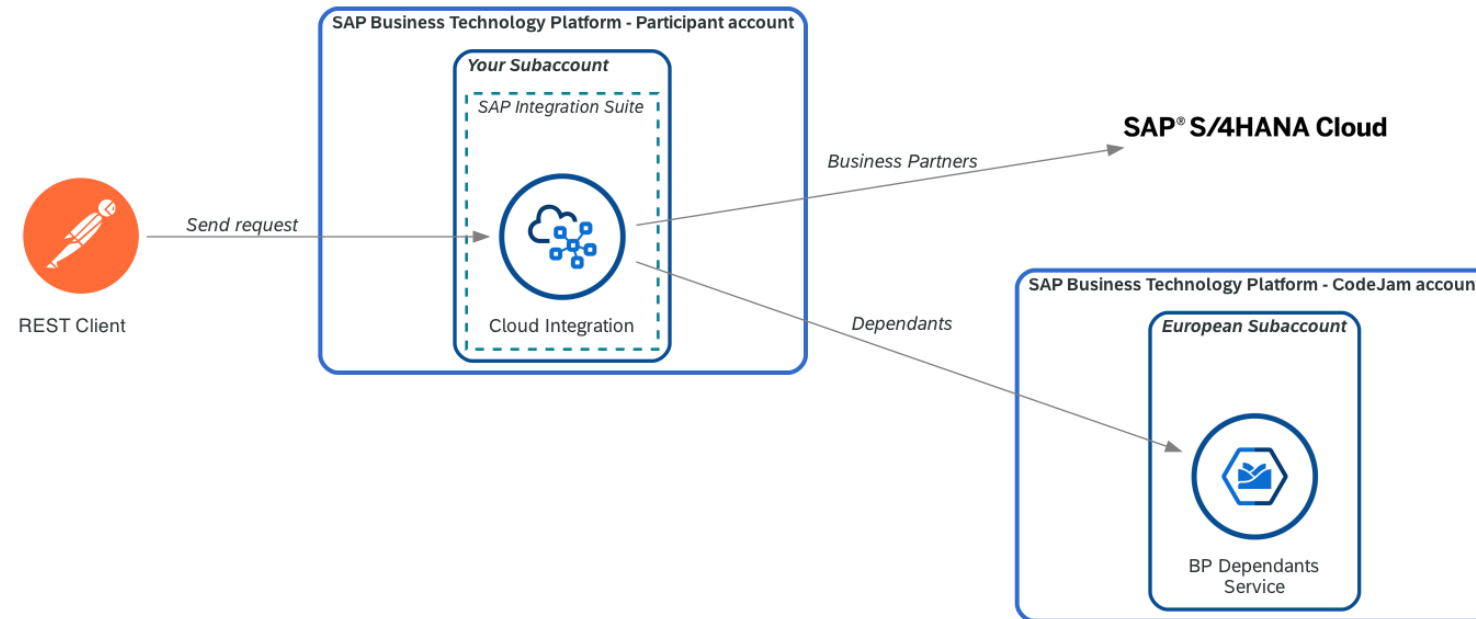
- Method:** GET
- URL:** `{{host}}/http/request-employee-dependants`
- Body:**

```
{
  "employee_id": "1003764"
}
```

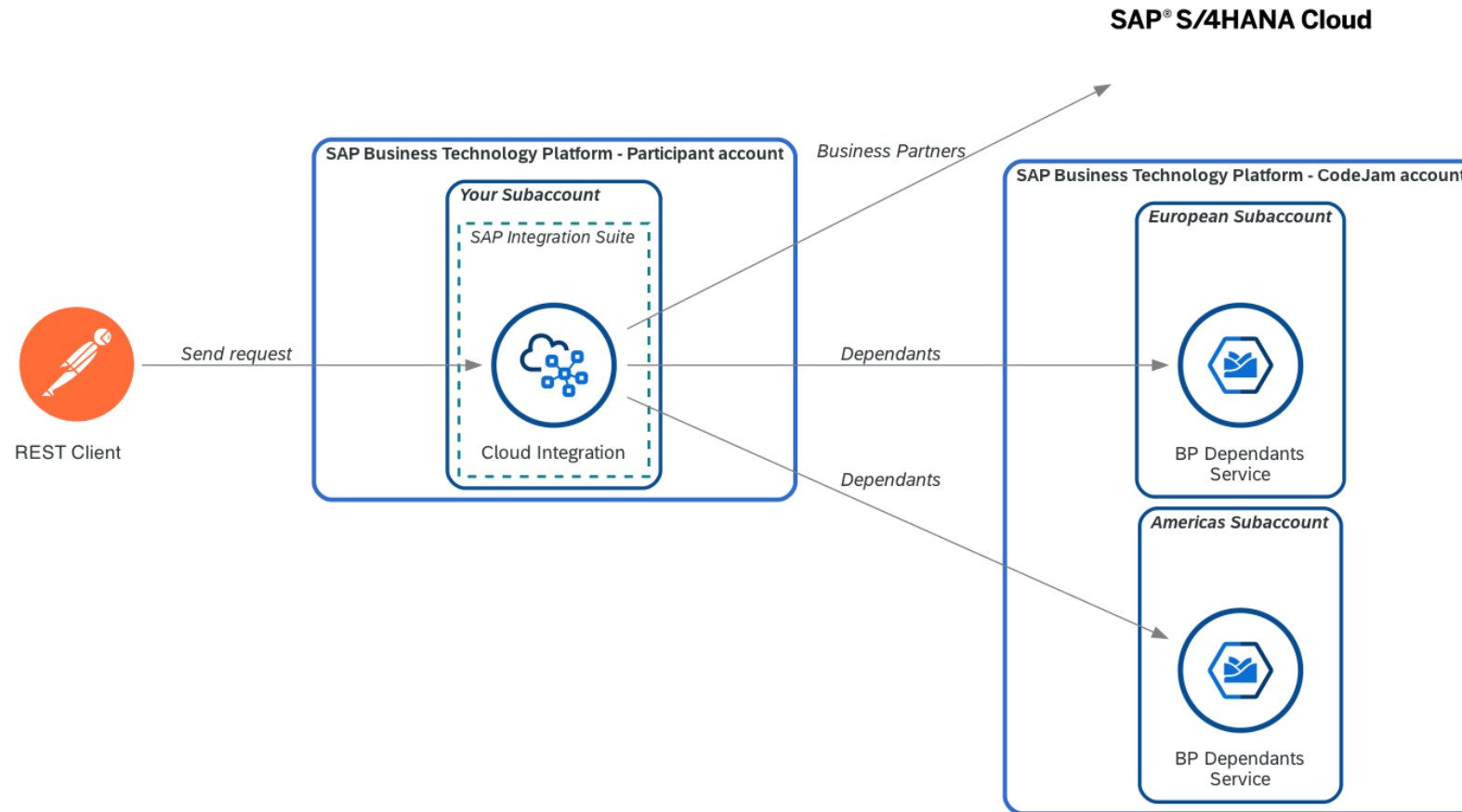
The 'Send' button is highlighted with a green box. Below the configuration, the response is shown in the 'Body' tab, indicating a successful 200 OK status with a response time of 1054 ms and a size of 6.63 KB. The response body is displayed in JSON format:

```
{
  "d": {
    "__metadata": {
      "id": "http://s4-mock-server-service.default.svc.cluster.local:443/sap/opu/odata/sap/API_BUSINESS_PARTNER/A_BusinessPartner('1003764')",
      "uri": "http://s4-mock-server-service.default.svc.cluster.local:443/sap/opu/odata/sap/API_BUSINESS_PARTNER/A_BusinessPartner('1003764')",
      "type": "API_BUSINESS_PARTNER.A_BusinessPartnerType"
    },
    "BusinessPartner": "1003764",
    "Customer": "",
    "Supplier": ""
  }
}
```

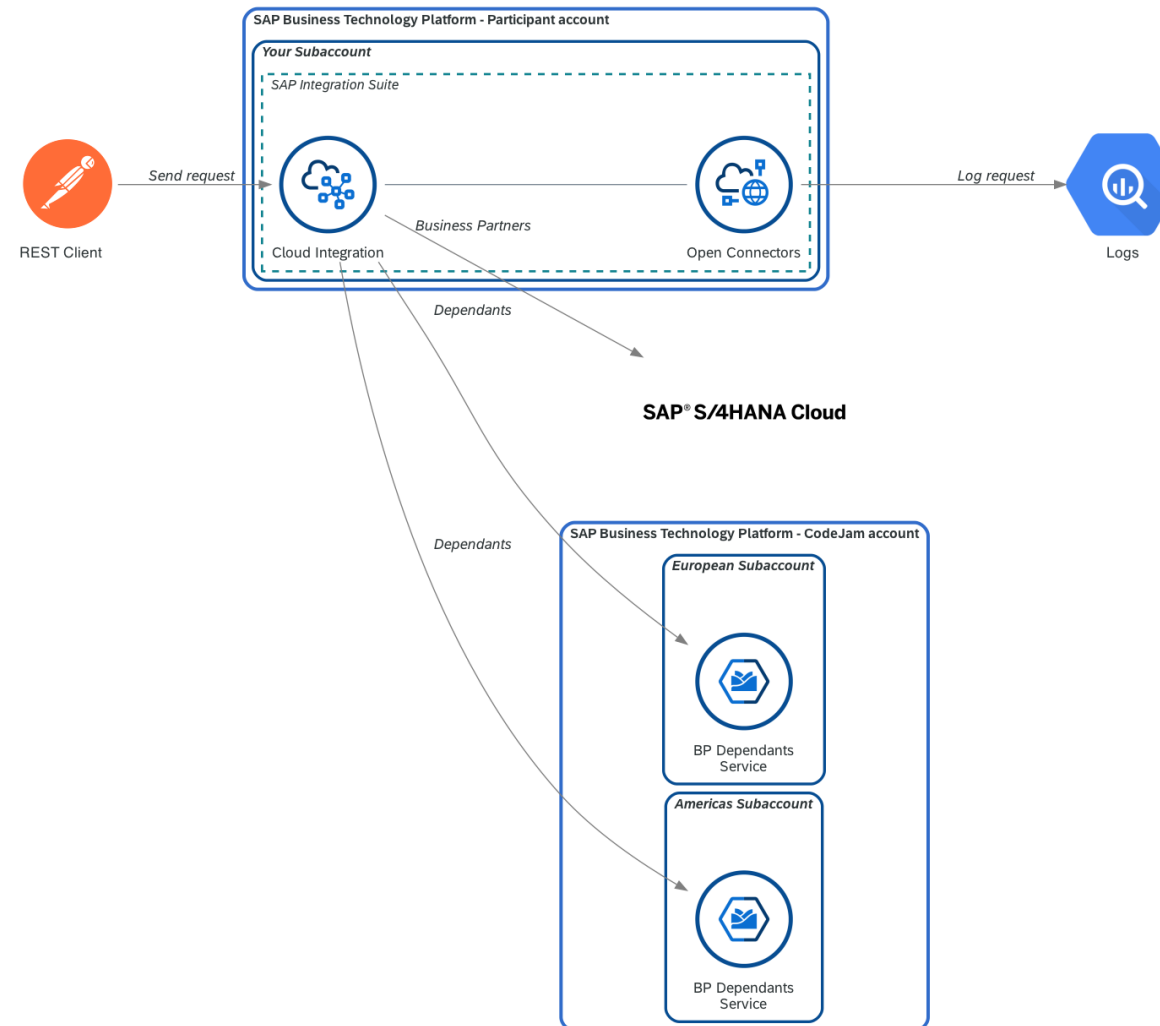
Exercise 04.1 - Retrieve Business Partner dependant's information (45')



Exercise 04.2 - Add the America's instance of the Business Partner Dependants service (30')



Exercise 05 - Log service call in Google BigQuery (20')



Exercise 06 - Expose integration flow via API Management (30')

[illegible]

**Thanks for
attending!!!**

