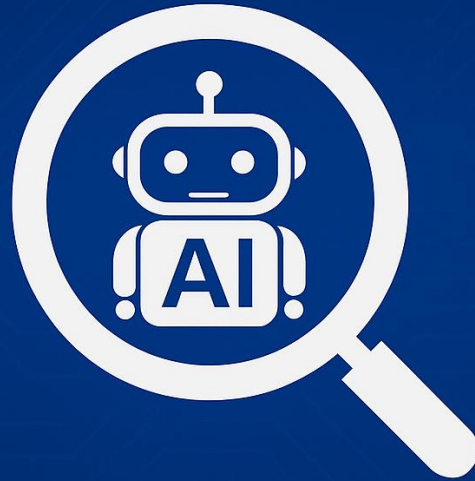


SAP SEARCH AGENT



PUBLIC

Custom Joule Skill & Agent in SAP Build SAP Search Agent

Configuration & User Guide

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This document contains 2 sections. Each section covers different information about this template content package.

1. **Overview:** In this section, you will get quick overview of the use case, what are high-level components used and how the template works in nutshell. Prerequisite section provides

information of different services of SAP Business Technology Platform that are required to use this template.

2. **Configuration Guide** It contain sections which will guide you to setup your (a) SAP Business Technology Platform Account with destination, user roles etc., (b) Links and steps to set up Joule studio and Joule (c) Import and configure the template using SAP Build Process Automation - Joule studio

Note:

- Learning contents are published only for demo and reference purposes. We do not provide any support to learning / sample content.
- This documentation is not a detailed guide to setup SAP Business Technology Platform services. It assumes that IT admin who is setting the content is skilled with SAP Business Technology Platform environment. **Configuration section must be followed.**
- This template content is to accelerate your solution development. You must modify this template according to your requirements to achieve the desired business goal. To use this template content, you need to have basic knowledge and understanding of SAP Build Process Automation and its capabilities.

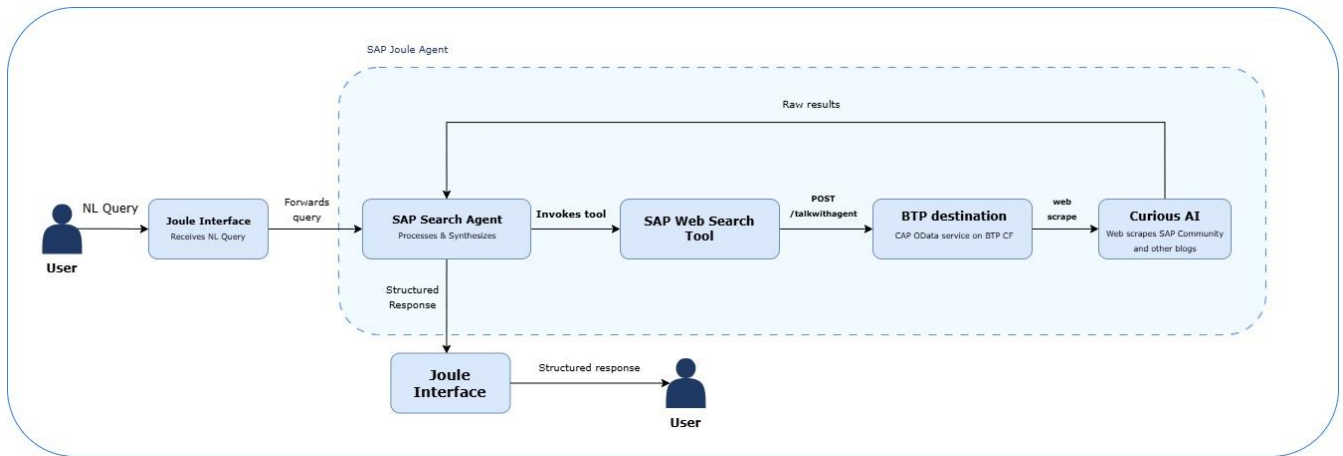
Overview

This document provides technical information about what needs to be configured to make the package SAP Search Agent run. The main audience of this document are technical personas like IT Administrators/Developers/Functional experts.

SAP Search Agent – An intelligent research assistant that performs real-time SAP-related web searches and provides comprehensive answers with references. It covers SAP BTP, S/4HANA, HANA, ABAP, Fiori, CAP, Integration Suite, and all related SAP components.

If you're new to Joule Studio or want to explore how AI agents can augment business workflows, this example provides a practical, ready-to-use scenario.

Solution flow:



The Solution flows is as follows:

1. User submits a natural language SAP-related question via the Joule interface.
2. The SAP Search Agent receives the query and automatically infers the search intent — no clarification is requested.
3. The agent invokes the sapWebSearch tool with a short, focused query (3–8 words) enhanced with SAP-specific context.
4. The sapWebSearch tool retrieves results from authoritative SAP web sources.
5. The agent synthesizes the retrieved information into exactly three structured paragraphs covering: concept introduction, detailed explanation/best practices, and implications/key takeaways.
6. A References section with 2–4 authoritative links is appended to the response.
7. The structured response is delivered to the user via Joule. No further conversation continues.

Business Value & Benefits

- SAP product and technology research
- Configuration and implementation guidance queries
- Troubleshooting and error resolution lookups
- Best practice discovery across SAP architecture patterns
- Learning and certification question answering
- Real-time SAP web search across all major SAP technology domains
- Automatic search query inference — no user clarification required
- Strictly structured 3-paragraph response format (200–400 words total)
- Professional, technical tone with correct SAP terminology throughout

Prerequisites

SAP Joule Studio & BTP



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- Joule Studio configured in SAP Build (refer to the setup guide for your tenant).
NOTE: If you need additional help with prerequisites such as setting up SAP Build Process Automation and SAP Build Work Zone, you can run the Discovery Centre mission:
- *Setup Joule Studio for a BTP Enterprise Account.*
- Ability to create BTP Destinations in the subaccount cockpit.
- Network connectivity from BTP to the Curious AI service host.
- Confirm the /talkwithagent endpoint is reachable and returns HTTP 200 with a valid JSON.
- Obtain any authentication credentials required by the external service (API key, OAuth token, or no-auth if publicly available).
- SAP S/4HANA (On-Cloud) accessible from SAP BTP.

Backend Service

1. Get the Code

Get the backend CAP service ZIP file from SAP Search agent's dependencies, extract the zip file and open it in code editor

2. Check Python Version

Ensure Python 3.10+ is installed.

3. Create & Activate Virtual Environment

```
python -m venv venv
```

```
>Windows: venv\Scripts\activate
>Mac/Linux: source venv/bin/activate
```

4. Install Dependencies

```
pip install -r requirements.txt
```

5. Configure Environment

Rename .env.example to .env and update it with your credentials and configuration.

6. Run the Application

```
python main.py
```

This starts the server and exposes POST /api/invoke.

When triggered, the agent calls the tool, which scrapes an external web source and returns the results to the agent for display.

Deployment & Destination

- Push the codebase to Cloud Foundry: `cf push` - note the assigned app route URL.
- Create a BTP Destination pointing to the CF app route (Type: HTTP, appropriate Authentication).
- In Joule Studio, reference the destination — the agent will invoke `POST /api/invoke` through it.

Configuration Guide

Setup Business Technology Platform Cockpit

Configure SAP Build Process Automation Destination

To access the process automation capability of SAP Build, you can configure the destination. Please create destination as stated below:

Destination Property	Value
Name	<Destination Name>
Type	HTTP
URL	https://<host>/odata/v4/chat-service
Client ID	<Client ID>
Client Secret	<Client Secret>
Token Service URL	<Token Service URL>
Proxy Type Internet	Internet
Authentication	No Authentication (or OAuth2ClientCredentials if secured)

NOTE: All destination values shown above are placeholders. Actual system-specific values must be maintained in the SAP BTP cockpit.

Additional Properties:

Additional Property	Value
HTML5.DynamicDestination	true
HTML5.Timeout	6000
sap.applicationdevelopment.actions.enabled	true

sap.processautomation.enabled	true
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User Roles Configuration

To access this template, the users need to have the roles as described [here](#).

Services used:

There is 1 Action projects used in this template.

Action Project Name	Service Used	Purpose
Search_Agent	/talkwithagent	POST action that sends the user query to /talkwithagent

Artifacts in the Agent:

Type	Name	Description
Joule Skill	SAP Web Search	Searches the web for SAP-related information by forwarding the user query to the Curious AI endpoint and returning a structured answer with references.
Joule Agent	SAP Search Agent	Orchestrates the skill and formats the final response

Setup Content Package

Import Custom Joule Agent

All imported custom agents are available in SAP Build Store. To know more about the SAP Build Store visit [SAP Build Process Automation Store](#).

This template can be downloaded from the SAP Build Store:

1. Navigate to the **Store** option in your SAP Build Lobby.
2. Select the **Project Type** filter as “Joule Agent and Skill”
3. In the Search bar type “**SAP Search Agent**”
4. Select the “Create from Template” button to add the template into your lobby.
5. Once the creation is complete, navigate to the Lobby to find the “**SAP Search Agent**” project is available for use.

Configuration & Modification



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Once the Joule Skill & Agent project is added into the lobby, it can be run directly without any modification.

However, if you need to modify Joule skills that are used within the project or want to modify the agent, with its instructions/additional context or other fields, you can do so.

In order to understand the various capabilities of Joule Studio and work with them please refer to the link: [Create AI Capabilities | SAP Help Portal](#)

Release and Deploy the Project

Once the agent is verified by the user / modified based on user need, it must be released and deployed into a shared environment.

- Refer to the link below to create/Share an Environment:
[Environments | SAP Help Portal](#)
- Refer to the link below to release a project:
[Release a Project | SAP Help Portal](#)
- Refer to the link below to deploy a project:
[Deploy a Project | SAP Help Portal](#)

Test the Joule Skills and Agent in SAP Build

1. To access your projects, navigate to **Control Tower ->Tenant Configuration->Environments**.
2. Select your environment.
3. After deploying the project, the project should be seen in the Shared Environment.
4. Click on the Tab, '**Joule**'
5. Click on the button '**Launch**'

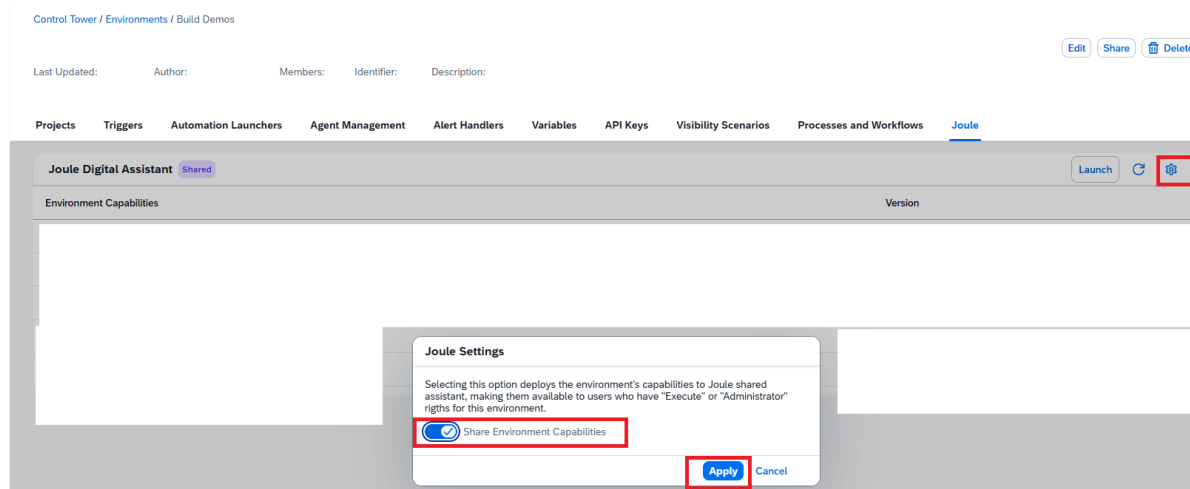
This will open the Joule launchpad where you can key in the below prompts to test the agent.

Prompts	Expected Result
What is the structure of SAP BTP and its main services?	A professional 2–3 paragraph structured answer in clear technical prose
What are the best practices for ABAP Cloud development?	A References section with 2–4 authoritative source links (SAP Help, SAP Community, SAP Blogs)
How does SAP API Management in BTP support secure API exposure for S/4HANA?	A fallback guidance message if the search returns no relevant results

NOTE:

1: Currently the Agent will be only deployed in the SAP Build environment and hence testing can also be done only in the Build Lobby. If you want to **activate the Joule in other systems** Eg: SAP S/4HANA or SAP Work zone, then click on the **settings** in 'Control Tower->Environments-><Your Shared Environment that was created>->Joule'

Here you must switch the toggle on for '**Share Environment Capabilities**'.



Support:

Since this is a learning content, support is not provided.