



Hands-on Lab: Create Skills for SAP Joule with SAP Build

VASS

OCTOBER 2025

VASS, complex made simple.



SAP Joule

Activation & Configuration of SAP Joule for S/4HANA, BTP, Sales & Service Cloud, Analytics Cloud and more. Enable AI-assisted development with SAP Joule for Developers.



SAP Integration Suite

Implementations, migrations, and deployments of SAP Integration Suite. Support for EDI deployments, API Hub, and Open Connectors.



SAP Business Data Cloud

Initial sizing, planning, and deployments of SAP Datasphere, SAP HANA Data Lake, Analytics Cloud, Cloud Data Integration, and optionally, Data Bricks. Activation of Intelligent Apps



SAP Build

Activate, educate and deploy SAP Build within your environment. Low-code and Pro-code solutions enable customers' to build app extensions that are clean core compliant. Includes SAP WorkZone and Business Process Automation



SAP Joule Agents

Develop custom SAP Joule Skills. Ground SAP Joule with customer knowledge and project documents. Extend SAP Joule to Microsoft Teams. Activation of SAP Joule Agent Builder

OUR ACCELERATORS



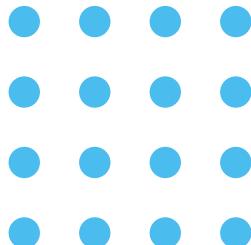
OUR PARTNERSHIPS



01

SAP Build

Lab Overview



Lab Overview

Getting to Know SAP Build

SAP Build Apps

- Platform for building and deploying application extensions in SAP Landscapes
 - Business Process Automation
 - Business Application Studio
 - Joule Skill Builder
 - Soon* - Joule Agent Builder
- Automations & Joule Skills can work together for complex business scenarios

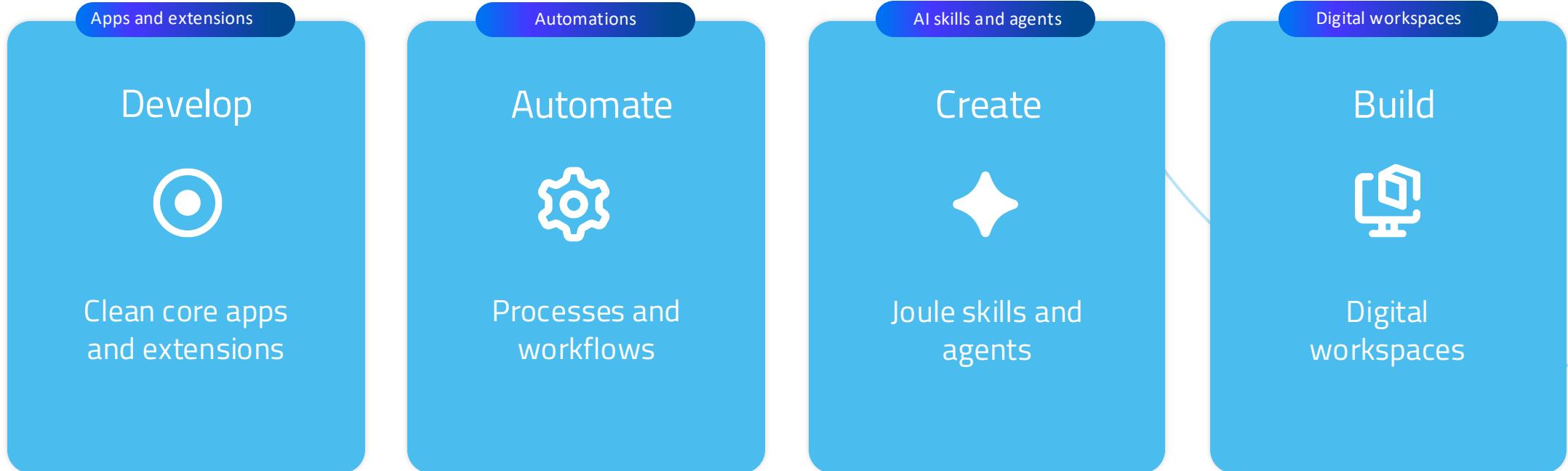
SAP Joule Studio

- Primary User Interface for developing new skills for SAP Joule – specifically deterministic tasks.
- Connect to on-premise SAP ERP, S/4HANA via Cloud Connector
- Connect to S/4HANA Cloud, Sales/Service Cloud, Field Service Mgmt, Ariba and more via Destinations
- Utilize ANY accessible ODATA or REST API

Available to ALL SAP Customers

What does SAP Build allow me to do?

Getting to Know SAP Build



Build extensions with or without code

Getting to Know SAP Build

Apps and extensions

Automations

AI skills and agents

Digital workspaces



Build with the flexibility of the low-code and pro-code methods working hand in hand



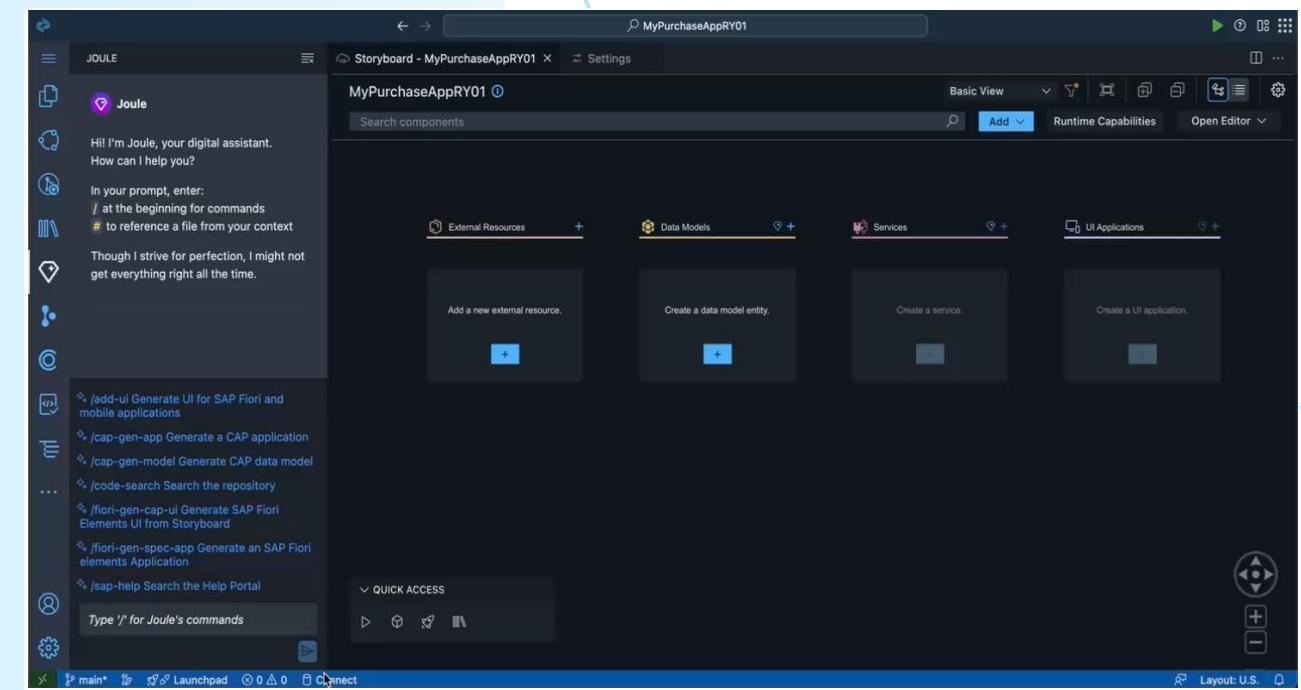
Get coding assistance from Joule, your copilot for using generative AI



Develop faster with turnkey data integrations



Leverage different environments and build with ABAP, CAP, SAPUI5, SAP Fiori and Native Mobile



SAP BTP services: • SAP Build Code • SAP BTP ABAP environment • SAP Build Apps • SAPUI5

Automate Processes

Getting to Know SAP Build

Apps and extensions

Automations

AI skills and agents

Digital workspaces



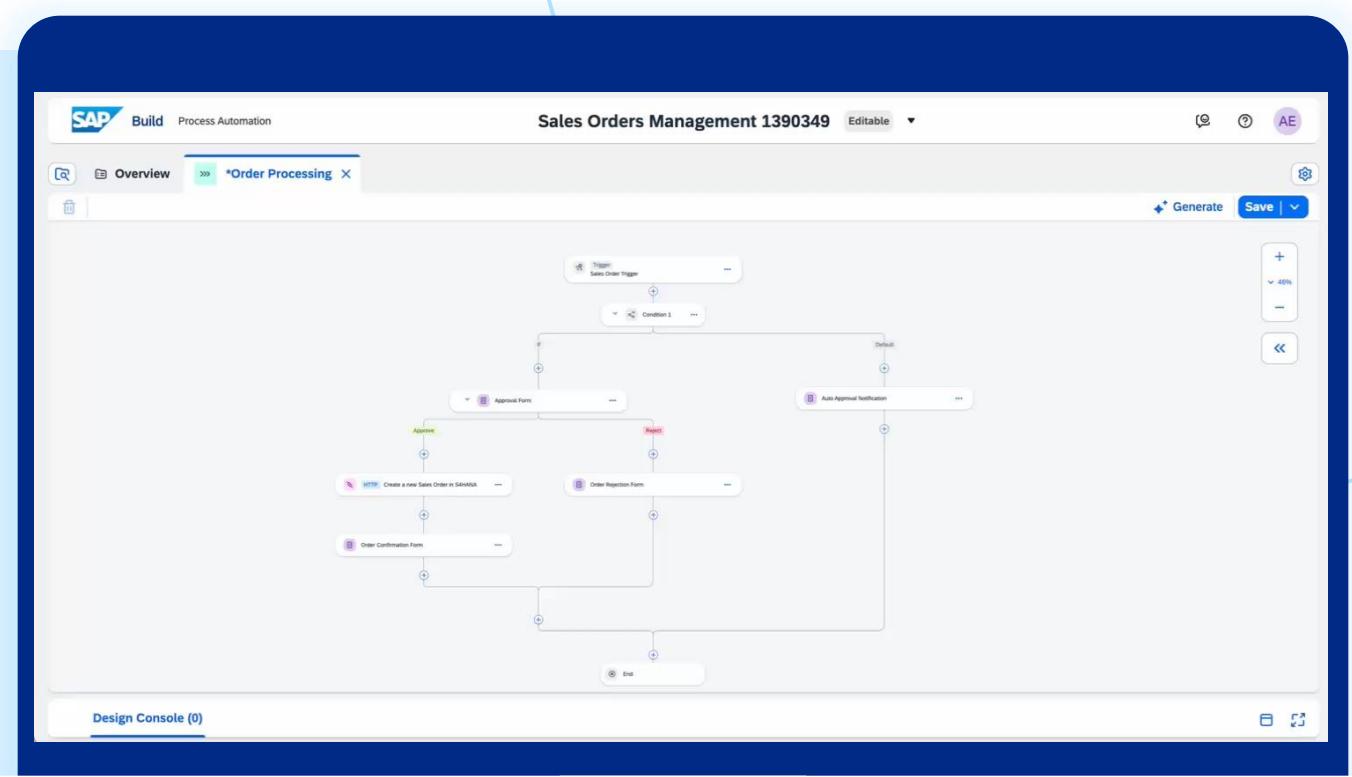
Create, manage, and visualize workflows, automations, and business rules with drag-and-drop simplicity



Use built-in AI for process generation, explanation and intelligent document processing



Automate faster using prebuilt solutions, bots, and connectors for SAP and third-party systems



SAP BTP service: • SAP Build Process Automation

Build Joule Skills & Joule Agents

Getting to Know SAP Build

Apps and extensions

Automations

AI skills and agents

Digital workspaces



Bring data and transactions from SAP and third-party apps into Joule to provide a unified conversational experience



Build AI agents and Joule skills that understand and solve business problems



Govern AI agents centrally within SAP Build for built-in enterprise-grade security

The screenshot shows the SAP Build interface with a dark blue header bar. Below it, a light blue sidebar on the left contains icons for Home, Projects, Automations, AI skills and agents, and Digital workspaces. The main area has a white background with a dark blue footer bar at the bottom. The top of the main area features a dark blue bar with the SAP logo and the word "Build". Below this, the title "Welcome to SAP Build" is displayed, followed by the sub-instruction "Create apps, automate processes, and build business sites using productivity or no-code tools." A search bar labeled "Search by project name and descrip..." is present. On the right side of the main area, there is a "Playground" button with a tooltip "Show" and a "Show Filter Bar" button. At the bottom right of the main area, there is a "Create" button with a plus sign and a "Create" link. The central part of the screen displays a table titled "Items (10)" with columns for Name, Type, Versions, Members, and Options. The table lists ten items, each with a small icon, a name, a type, a version count, a member count, and a "More" button. The items listed are: "Invoice Approval" (Process Automation, 5 available, Latest 5.1.0), "Bookshop Project" (Build Code, Full-Stack Application), "Sales Order Apps" (Build Code, Fiori Application), "Vivamus Elementum" (Build App, Application Backend), "Vivamus Elementum" (Build App, Web and Mobile Application), "Purchase Order Approval process" (Process Automation, 5 available, Latest 5.1.0), "Purchase Order Approval process" (Process Automation, 5 available, Latest 5.1.0), and "Purchase Order Approval process" (Process Automation, 5 available, Latest 5.1.0).

Build Digital Work Spaces

Getting to Know SAP Build

Apps and extensions

Automations

AI skills and agents

Digital workspaces



Create and customize business sites with drag-and-drop simplicity and



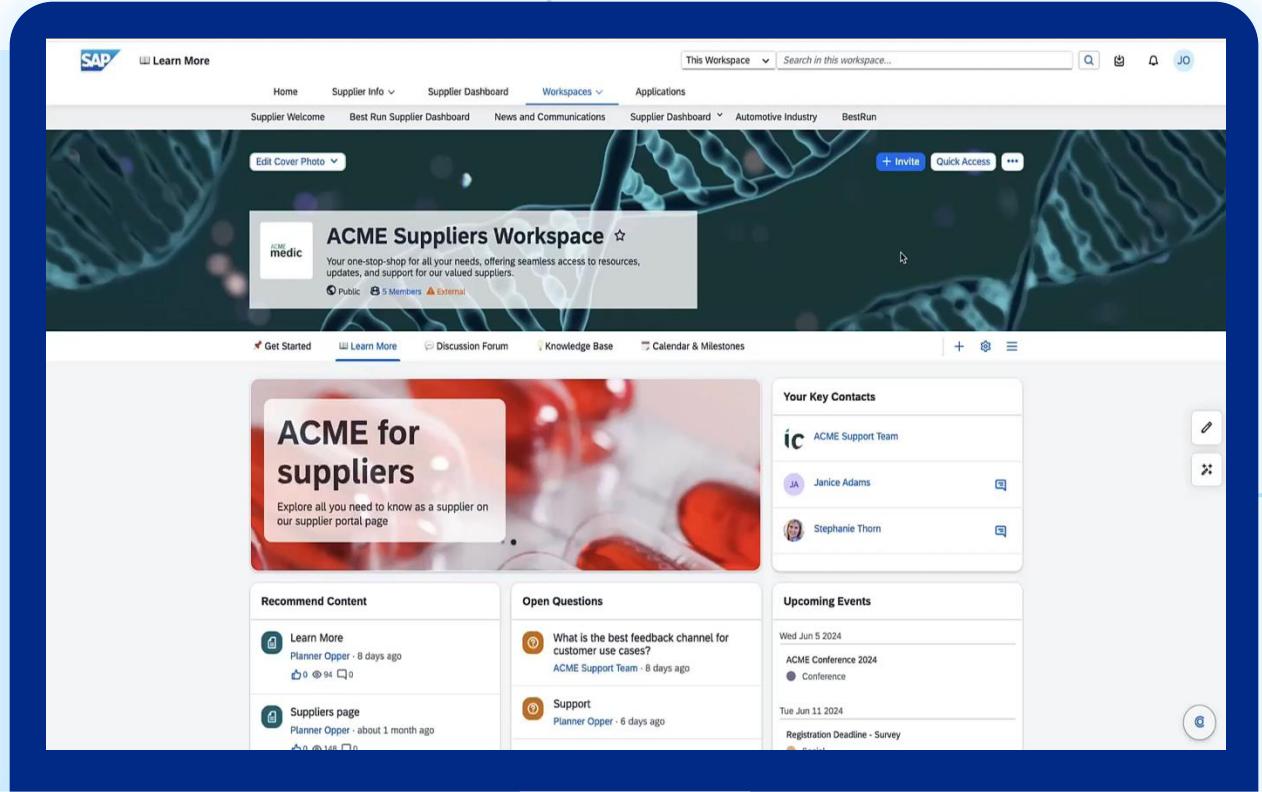
Use content and knowledge from the workspaces in Joule directly through document grounding



Surface personalized recommendations, insights, and actions



Centralize your apps and share access on any device



SAP BTP service: • SAP Build Work Zone, advanced edition

How do I get started?

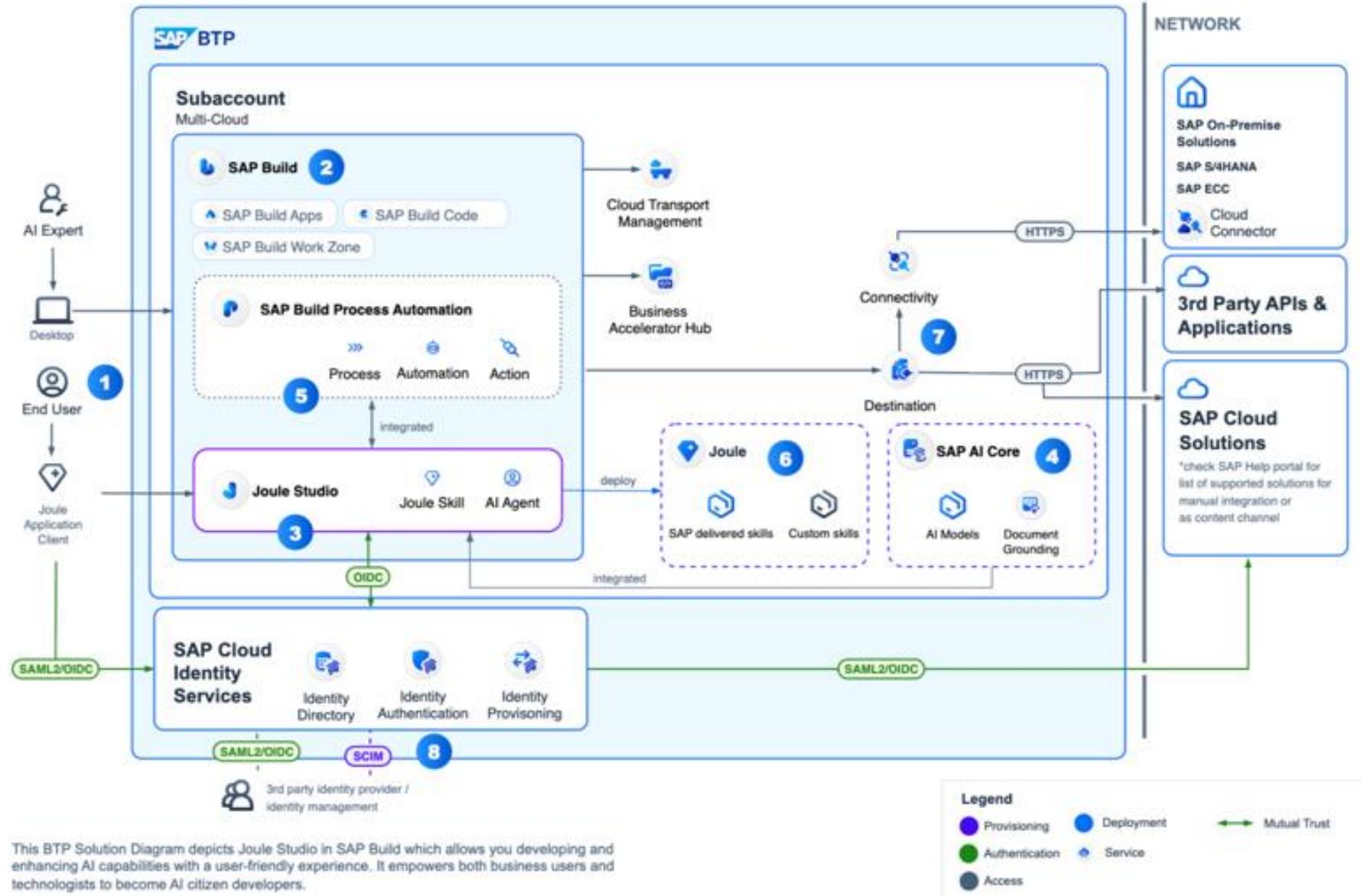
Components

- SAP Identity & Authentication Service
- SAP Cloud Connector (for on-premise)
- SAP BTP Enterprise Agreement or Pay-as-Go
- Licenses Required for this Lab
 - SAP Build Developer (your license today)
 - SAP Build Automated-Configuration Complete
 - Joule Booster Executed



Example Architecture

Putting it all together



SAP Cloud Integration Automation Service

SAP Cloud Integration Automation Service - Plan for Integration

Integration Solutions and Scenarios

Select a cloud integration solution and its scenario. To learn about the pre-requisites to use in Cloud Integration Automation Service, [click here](#)

Expand All Collapse All Scenario Type: Cloud

Build

SAP Build

- Provision SAP Build on SAP BTP
- Provision SAP Build on SAP BTP with S/4HANA Cloud Private Edition Integration

SAP Build Work Zone Integration

- SAP Build Work Zone Standard Edition Integration with SAP S/4HANA
- SAP Build Work Zone Standard Edition Integration with SAP S/4HANA Cloud

Provision SAP Build

Please select the scenario option and proceed with the integration.

Scenario Options (1)

Provision SAP Build on SAP BTP

Description Scenario Entities Scenario Tasks

Tasks which are a part of the selected scenario can be seen below.

Expand All Collapse All

SAP Business Technology Platform

- Create SAP BTP Subaccount
- Cloud Foundry Environment Entitlement
- Enable Cloud Foundry Environment
- Create Space

Activate Free Service on Marketplace

Automates all setup tasks for SAP Build

Pause and Resume Anytime

Detailed Logging



Automated Setup Demo

Everyone gets SAP Joule Base

Yes, even if you're an on-premise customer

The screenshot shows a web browser displaying the SAP Joule Base product page at sap.com/products/artificial-intelligence/joule-base.html. The page features a dark green header with the SAP logo and navigation links for Products, Industries, Transform and Support, Learning, Community, Partners, About, Explore SAP, and a search bar. Below the header, a breadcrumb trail shows the path: All products / Artificial Intelligence / Joule base. The main content area has a white background with a large green banner on the left containing the text "Activate Joule across your SAP cloud products for free". To the right of the banner, there are several screenshots of SAP interfaces demonstrating the Joule integration, such as a "Create Benefit Employee Claim" screen, a "Good morning!" greeting card, a "Job Requisition" list, and a "Joule Recognition" interface. A blue "Contact us" button is located at the bottom right of the content area.

<https://www.sap.com/products/artificial-intelligence/joule-base.html>

- 1) Do I need to buy AI Units?
 - 1) No, you do NOT need to buy AI Units to use SAP Build, SAP Business Application Studio, or BPA.
 - 2) Today, AI Units are only required for “Premium AI” solutions, Document Grounding, Document AI.
- 2) How long does activation of SAP Build take?
 - 1) Once you get SAP IAS setup with Corp IDP, it moves very quickly. Typically less than –2 days
- 3) Where can a deploy Joule Skills?
 - 1) Shared Environment – Joule instance shared with other cloud solutions (i.e. S/4HANA)
 - 2) Standalone Environment – Meant for testing Joule Skills in a standalone environment (our lab is Standalone)

How does connectivity to SAP S/4HANA Work?

Best Practice

- 1) Setup a Destination in SAP BTP
- 2) Set Authorization to SAMLAssertion
 - 1) Cloud Connector with Principal Propagation for on-premise
- 3) Set Additional Parameters to use Destination with SAP Build

The screenshot shows the SAP Build TDD interface for managing destinations. The main view displays a table of destinations, with one row selected for the 'S4HANADEV' destination. A detailed view on the right shows the destination's properties and authentication configuration. A modal dialog at the bottom left lists additional properties for the destination.

Subaccount: SAP Build TDD - Destinations

S4HANADEV

Destination Details

- Source: New destination from scratch
- Created On: 24 Oct 2025, 18:43:17 (GMT-06:00)
- Modified On: 27 Oct 2025, 13:37:35 (GMT-06:00)

Main Properties

- Name: S4HANADEV
- Type: HTTP
- Description: S4HANA Dev Tenant <https://my421462.s4hana.cloud.sap>
- Proxy Type: Internet
- URL: <https://my421462-api.s4hana.cloud.sap>

Authentication

- Authentication: SAMLAssertion
- Key Store Location: (empty)
- Key Store Password: (hidden)

Additional Properties

Key: WebIDEUsage	Value: odata_gen
Key: WebIDEEEnabled	Value: true
Key: HTML5.Timeout	Value: 60000
Key: HTML5.DynamicDestination	Value: true
Key: x-system-type	Value: SAP S/4HANA Cloud

Trust Store configuration

Configure the client trust store settings for the destination endpoint.

Running the Joule Booster

The screenshot shows the SAP Cloud Platform cockpit interface for setting up the Joule Booster. The top navigation bar includes icons for back, forward, search, and work, along with a 'Relaunch to update' button. The main title is 'Setting Up Joule' with a progress bar showing six steps: 1. Check Prerequisites, 2. Set Up Subaccount (highlighted in blue), 3. Select Integrations, 4. Select Capabilities, 5. Set Up Integrations, and 6. Review.

The current step is 'Set Up Subaccount'. Below it, a modal window titled 'Setting Up Joule' shows the same six-step progress bar. The second step, 'Set Up Subaccount', is highlighted in blue. The third step, 'Select Capabilities', is also visible.

The main content area displays the 'Select Capabilities' screen. It asks to 'Select one or more SAP products which you want to include in your formation'. Under 'Capability Packages', there is a checkbox for 'Store conversation data submitted by users'. Below this, there is a section for 'Create Formation' with a 'Formation Type' of 'Integration with Joule' and a 'Formation Name' field containing 'joule-vass-sap-build-ai2'. The final section is 'Include Systems'.

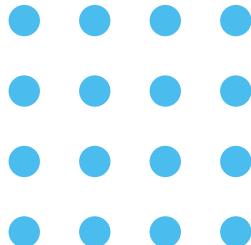
In the 'Include Systems' section, the 'Joule System' is listed as 'Automatically Included'. The 'Identity Authentication System' is set to 'apbxwxejk - https://apbxwxejk.accounts.ondemand.com'. The 'SAP Build Process Automation System' is set to '6f56889b-403f-4299-a954-c095a4127664 - https://vass-sap-build-ai2.us10.process-automation...'. The 'SAP Build Work Zone System' is set to 'eef87921-fa0e-46c6-916e-d237a503c739 - https://vass-sap-build-ai2.dt.launchpad.cfapps.us1...'. The 'SAP S/4HANA Cloud System' is set to 'my421457.s4hana.cloud.sapv2 - https://my421457.s4hana.cloud.sap|'. A blue line points from the 'Identity Authentication System' dropdown to the 'SAP S/4HANA Cloud System' dropdown.

At the bottom right, there are buttons for 'Previous Step', 'Next Step', and 'Cancel'.

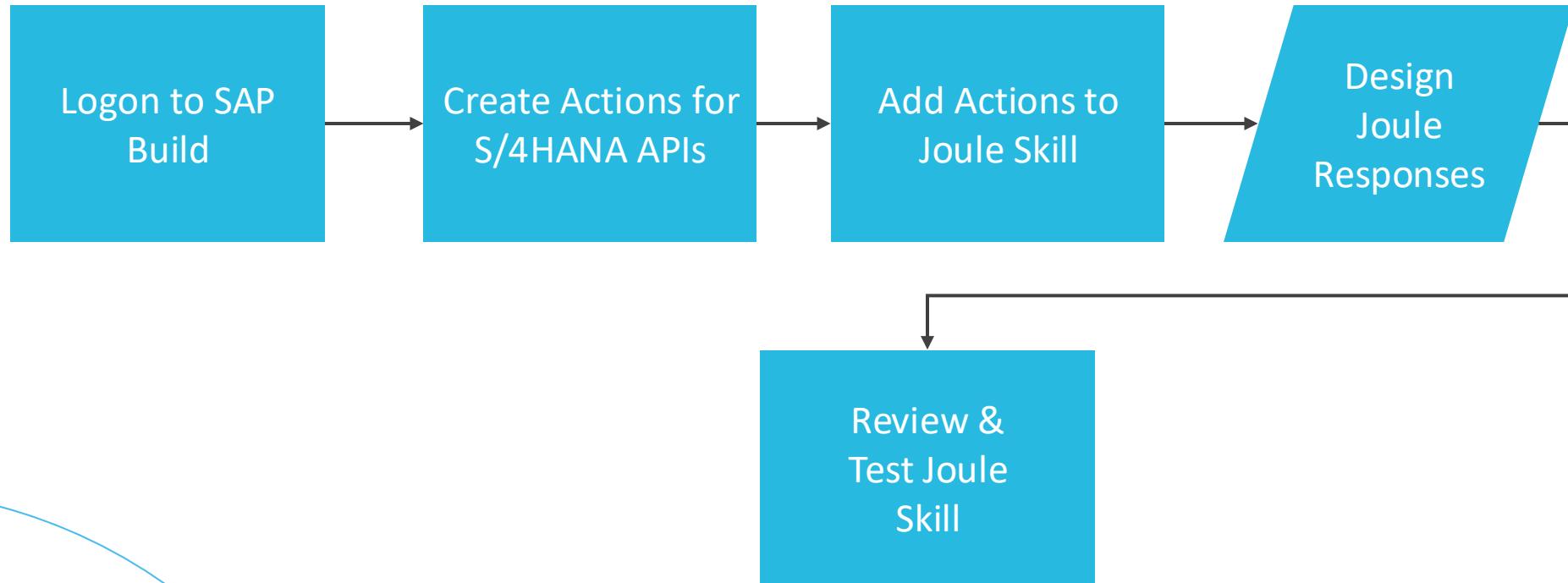
02

SAP Details

Lab Overview



High Level Process Flow



Lab Details

Important Details

- Browser: Please use Google Chrome for this lab
 - If needed, create a new Chrome profile to avoid cache and other passwords
- UserIDs
 - Labuser##@vasscompany.com
 - Password: Newpa55!
- Lab Exercises: <https://github.com/MichaelPytel-VASS/LabExercises>
- Important URLs
 - SAP BTP URLs:
 - [Global Account Direct Link](#)
 - [SAP Build Sub Account Link](#)
 - SAP Build App URLs
 - [SAP Build Apps](#)

Next Steps

Recommendation Action

- Vass will lead the demo on screen
- Ask questions in Chat first
- Interrupt verbally if you feel like you aren't getting support
- Ask questions!

Email us!

- Michael.Pytel@vasscompany.com
- aleksandrs.antonuks@vasscompany.com
- Gabe.Menschling@vasscompany.com

Thank you for your time



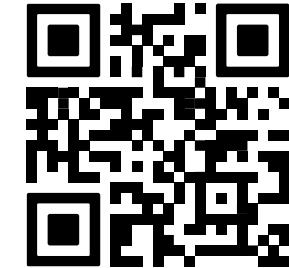
Questions?

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Scan here

Backup

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Driving **Innovation**, Meaningful **Business Transformation**, and SAP **Investment Optimization**.



What makes VASS different?

VASS

LEADING WITH EDUCATION

Our methodology focuses on the outcomes our customer's need, guiding informed decisions to architect and implement SAP solutions that deliver real business value.

GLOBAL CAPABILITIES. LOCAL TOUCH

VASS North America has a dedicated team of Sr. SAP Experts with 200+ years of combined experience delivering successful SAP transformations in the region.

INNOVATION-DRIVEN

Our Experts are at the forefront of embedding AI and intelligent automation into SAP programs from day one to maximize ROI.

GLOBAL SAP PRACTICE

Our local depth is strengthened by VASS's global SAP practice of 500+ experts, 250+ certifications, and delivery across 26+ countries.

INDUSTRY-SPECIFIC SOLUTIONS

We built tailored accelerators across the full suite of SAP practices (ERP, CX, DSP, BTP, AI) for faster time-to-value.

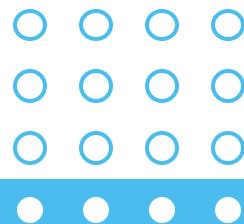


Our Products and Services

VASS is a trusted SAP Gold Partner, helping customers maximize their SAP investment and achieve customer-first business outcomes.

TOP 3 BENEFITS

- Fast SAP business outcomes via preconfigured cost-effective solutioning and rapid deployment expertise.
- Embedded AI and automation across SAP applications from day one.
- Global SAP consulting leveraging local leadership, architects, and management complemented with regional right-shoring creative delivery.



OUR ACCELERATORS



We help enterprises accelerate modernization through:

SAP ERP transformation
(GROW and RISE programs).

Customer Experience (CX) and
SAP Marketing Cloud deployments.

Digital Supply Chain optimization and field
service management.

SAP Business Technology Platform (BTP)
innovation and low-code extensions.

Embedded SAP Business AI and intelligent
automation across workflows.

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SPAIN SWEDEN THE NETHERLANDS UNITED KINGDOM

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VASS



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25 Years SAP – Vancouver CAN

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SAP Joule

Activation & Configuration of SAP Joule for S/4HANA, BTP, Sales & Service Cloud, Analytics Cloud and more. Enable AI-assisted development with SAP Joule for Developers.



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Proven SAP experience and expertise



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Thank you!