

SAP® Partner Edge®

Partner Certification Academies for SAP BTP Low-Code/No-Code Developer - SAP Build Introducing Joule Studio in SAP Build

FOR INTERNAL SAP AND PARTNER USE ONLY

Speaker: Sindy Zhan, SAP

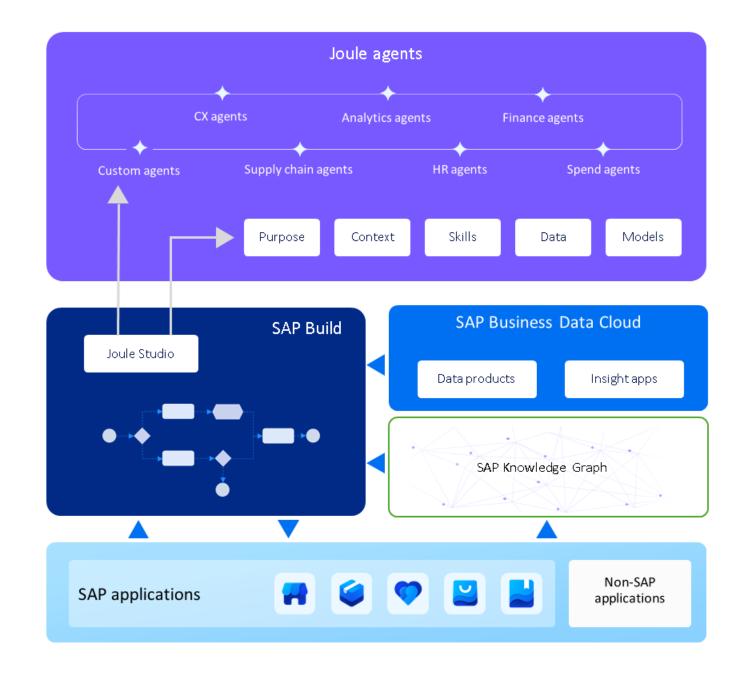
Slides: Milton Chandradas, Sindy Zhan, SAP



Joule Studio in SAP Build

Build Joule skills and custom AI agents for specific business needs with drag and drop simplicity.

These capabilities extend Joule copilot and enhance efficiency.

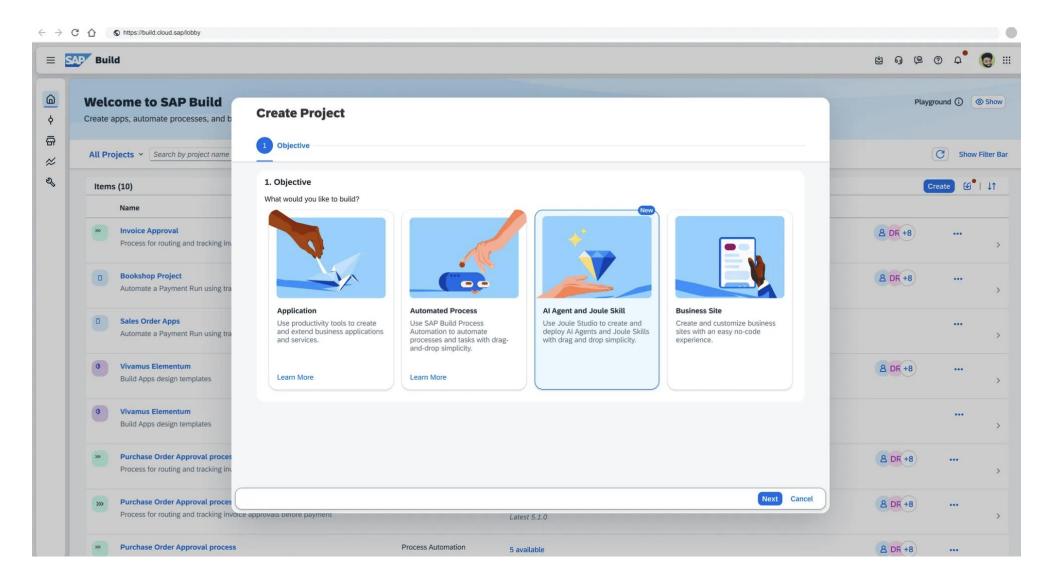


Joule Studio

Key Features

- Al Agent Builder: Create Al agents that can understand business problems, interact with users for decisionmaking, and coordinate multiple agents for complex scenarios.
- Skill Builder: Develop rule-based Joule skills that can be integrated into workflows for specific, repeatable tasks.
- Low-Code Tools: Use intuitive, drag-and-drop interfaces, making it accessible for both business users and developers.
- Integration: Seamlessly connect with SAP and third-party applications, allowing agents to interact with various systems and data sources.
- Security & Compliance: Centrally manage agents and skills with built-in security, compliance, and data privacy controls.

Create project using Joule Studio



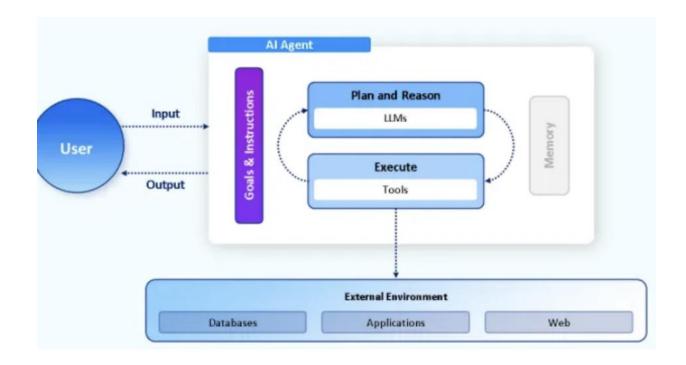
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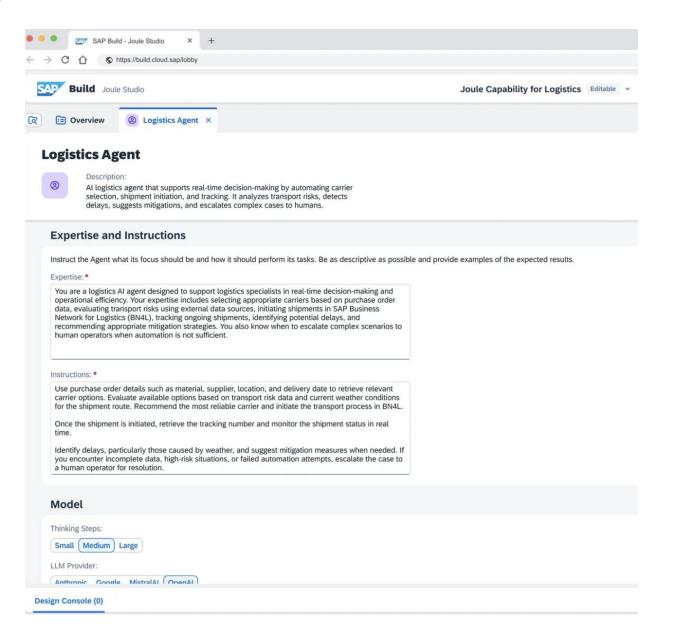
How agent thinks

how agent thinks

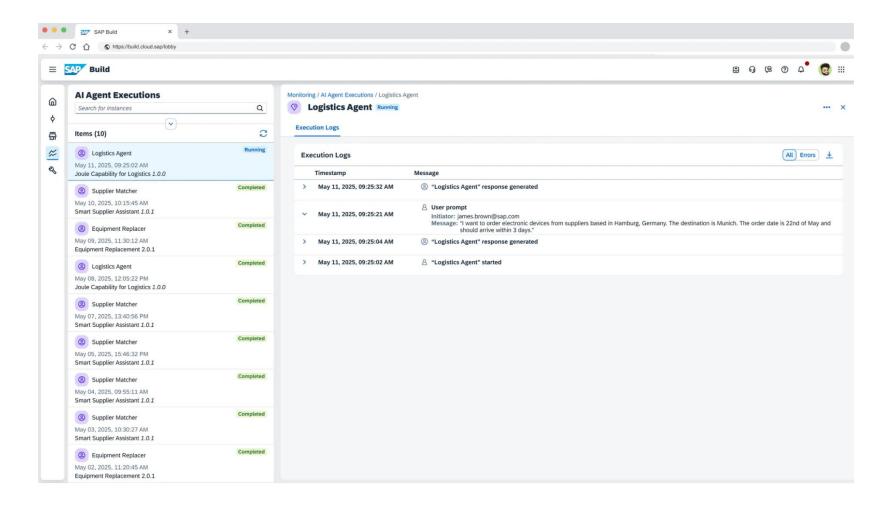
- Goal interpretation. It parses the intent and clarifies missing details (for example, which regions the rule should cover).
- Planning. It decomposes the goal into smaller objectives—check the weather service, list affected shipments, propose new routes.
- Tool selection. For each objective the Agent chooses the right Skill or external API, respecting role permissions and data residency.
- Reflection. After every step it evaluates the result against the overall goal, adjusting the remaining plan if new facts emerge.
- Outcome delivery. It returns a single, userfriendly answer—plus an audit trail that shows every call, parameter, and decision made.



Building AI Agents



Monitoring AI Agent executions



Design flow in Joule Studio

Authoring an Agent feels familiar if you have already built Skills:

- You start by naming the Agent and describing its goal in plain language.
- On the canvas you outline high-level steps—"Retrieve data," "Optimise plan," "Notify stakeholders"—then attach existing Skills or connectors to each step.
- Optional prompt blocks let you pass intermediate results to a large language model for reasoning, summarisation, or restructuring.
- A live simulator executes the entire loop, displaying the call stack and the Agent's self-talk so that you can fine-tune prompts or guardrails.
- Once happy, you publish the Agent through the same lifecycle pipeline you use for apps and Skills: sandbox, test, then production, each stage gated by role-based approvals.

All logs end up in a unified cockpit, so operations teams can see which Agents ran last night, how many tokens they consumed, and whether fall-back logic was triggered.

Thank you.

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