

AWS State, Local, and Education Learning Days

Phoenix, Arizona

1:30pm – 3:00pm

200
level

Workshop: Build a product recommendation with Bedrock Agents

AWS workshop on building autonomous AI workflows with Amazon Bedrock for developers

aws Learning Days
State, Local, and Education



Build a Product Recommendation with Bedrock Agents

Ash Naik (she/her)

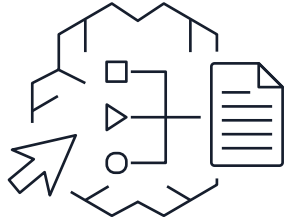
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Agents for Amazon Bedrock

Enable generative AI applications to execute multi-step business tasks using natural language

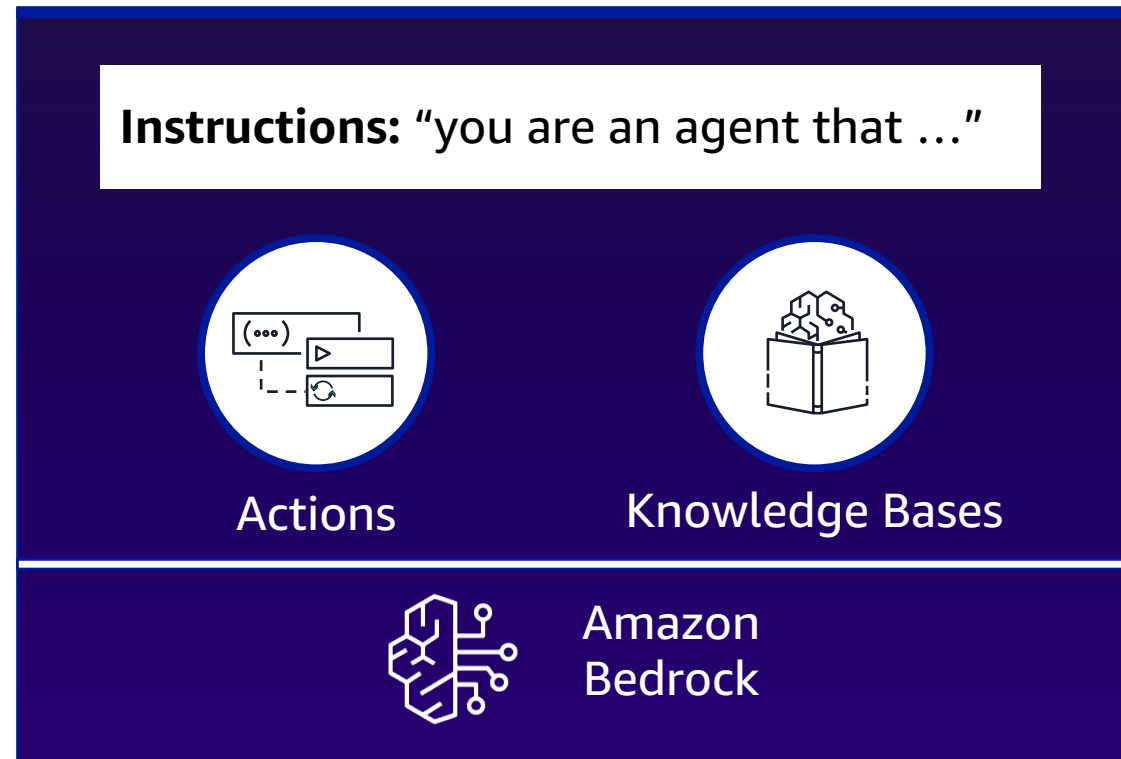
Features

- Uses power of LLM's to prompt and respond using natural language
- Breaks down and orchestrates tasks
- Completes tasks by dynamically invoking APIs
- Securely and privately accesses company data
- Surfaces chain-of-thought trace and underlying agent prompts

Agent basics



Agent



Simplest agent has only a set of instructions



why did the AI
go to school?

to improve its
learning Rate

write an email
message

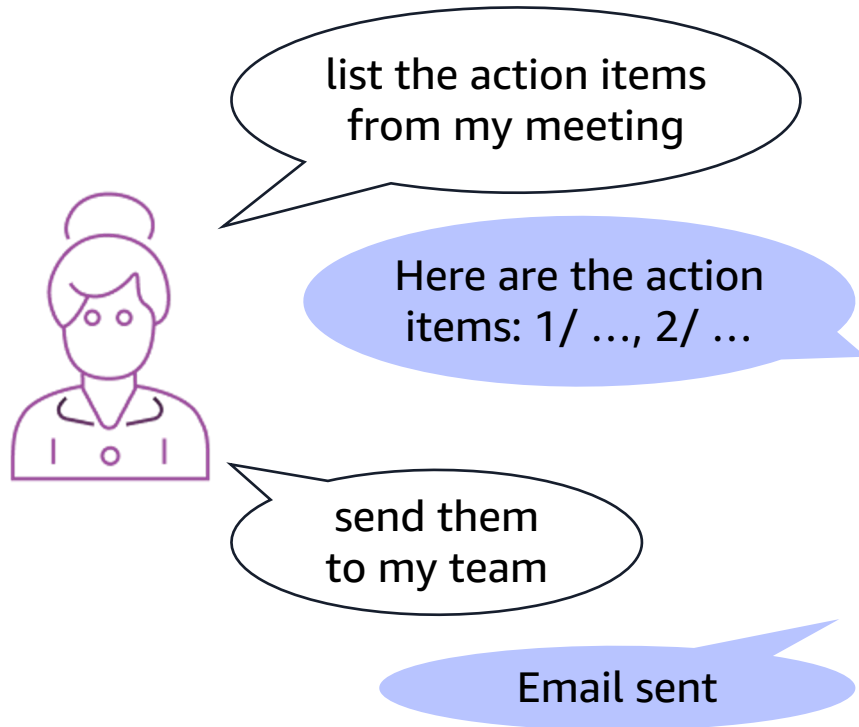
I'm sorry, I'm just a
funny bot who tells jokes

Joke bot

Instructions: "you are a funny agent that can **only** tell jokes. **you refuse to do anything else.** you always keep the jokes clean and not offensive. you can tell jokes about any topic."

Agents use **actions** to get work done

Meeting assistant



Instructions: "you summarize meetings and send results"

Meeting Actions

List Meetings

In: date range

Out: [date, subject, meeting ID]

Get Action Items

In: meeting ID

Out: [action items]

Utility Actions

Send Email

In: subject, recipients, body

Out: status

Get Team

Out: list of team member email addresses

Agents use **Knowledge Bases** to find information

HR Policy Assistant



If I switch to part-time, will I still get vacation days?

Sorry, part-time staff aren't eligible for vacation days.

Instructions: "you are an HR agent, helping employees understand HR policies"

HR Knowledge Base

Vacation Policy
Contains the entire vacation policy for the company

Agents can combine **Actions** and **Knowledge Bases**

HR Policy Assistant v2



how much vacation do I get per year?

as a full-timer with 3 years tenure, you get 15 days

cool. I'd like to take off December 8 to 15

approved, enjoy. you have 8 more days available

Instructions: "you are an HR agent, helping employees understand HR policies and manage vacation time"

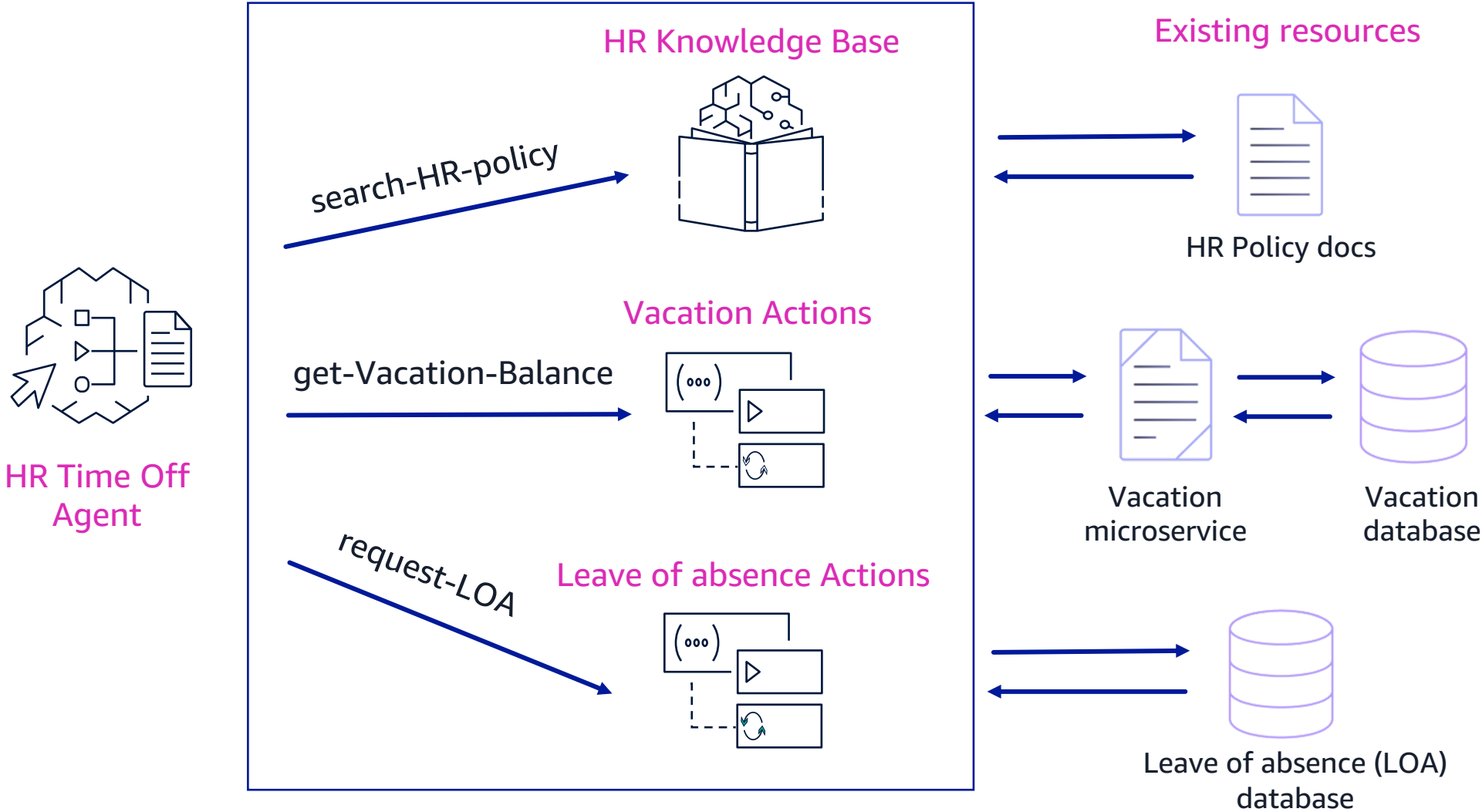
HR Knowledge Base

Vacation Policy
Contains the entire vacation policy for the company

HR Actions

Request Vacation
In: start date, end date
Out: approval status, remaining balance

Agents build on existing enterprise resources



Workshop Link

<https://s12d.com/phx-learning-days>



<https://s12d.com/phx-learning-days>



Workshop: Building Agentic Workflows on AWS


Workshop Access



- [Click here to join the Workshop Event](#)
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Event details

Name	Start time	Duration	Level
AWS General Immersion Day	9/23/2022 01:13 AM	12 hours	-

Description
AWS General Immersion Day

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Thank you!

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Please complete the survey
for this session



Track: AI / ML

Session: Build a Product
Recommendation with
Bedrock Agents

Coming up NEXT

3:15pm – 4:15pm

200
level

**Securing Generative
AI**

Learn about multi
layered Security
framework for AI
agents