

# The new age of Agentic AI

# About Me

- IBM i Development
- Senior Business Architect
- Rochester, MN
- AI and Open Source master





## IBM i: The First Agentic Native Operating System

[Click here to remove from My Schedule.](#)

 Tuesday April 28, 2026 9:15am - 10:15am CDT

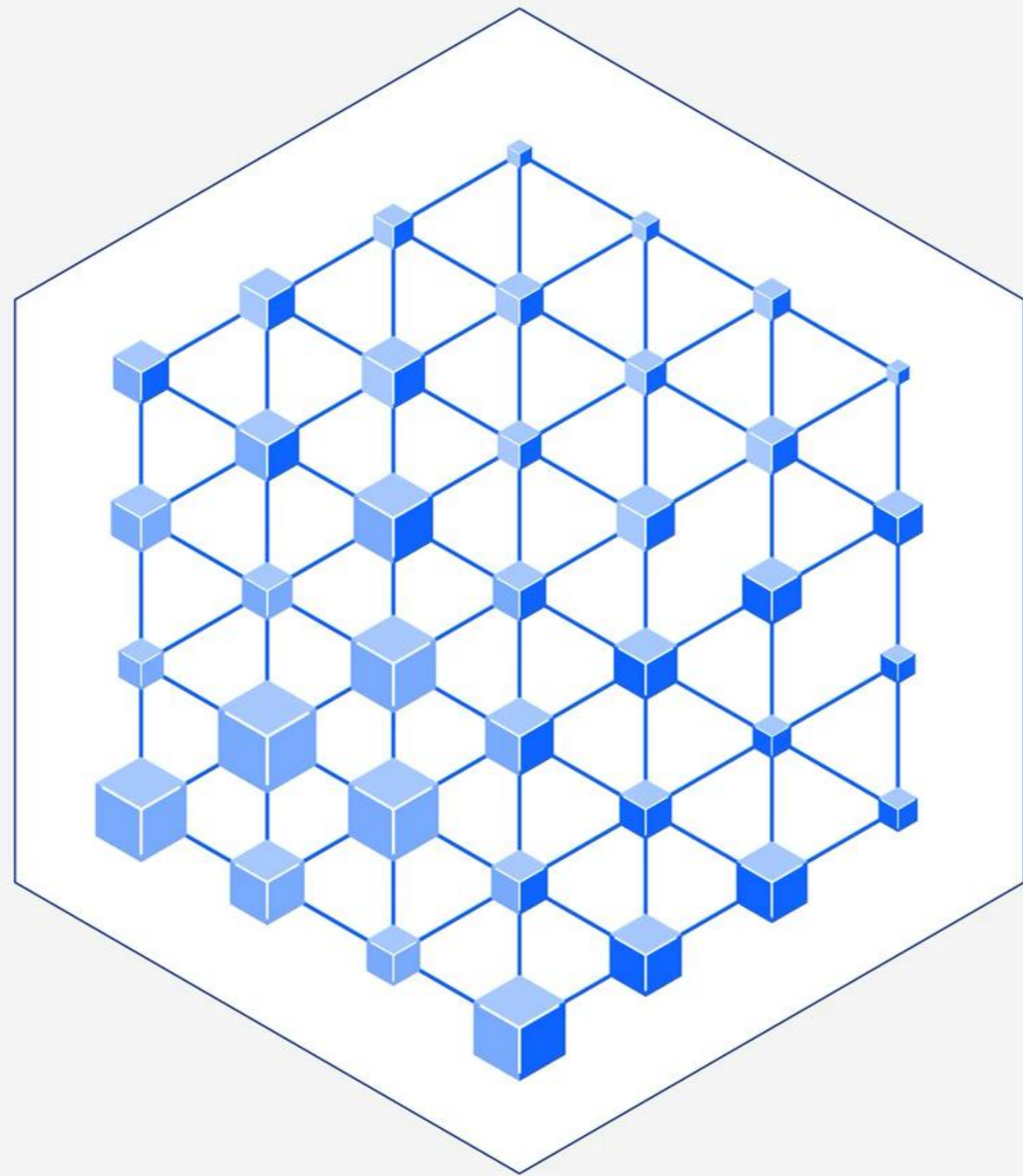
 Galerie 2

[Evaluation Survey](#)

While the tech industry races to retrofit systems for AI agents, IBM i has been quietly agent-ready for decades. This session uncovers how IBM i's core design principles, established long before the AI revolution, make it remarkably well-suited for today's agentic workloads. We'll explore IBM i's integrated database architecture, object-based security model, and unified storage architecture, demonstrating why these aren't just legacy features

# Agenda

- What is agentic AI?
- Anatomy of an agent
- Addressing misconceptions
- Solutions and Successes



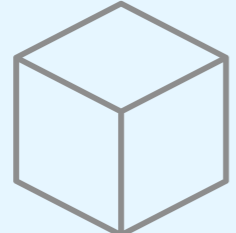
# What is agentic AI?

Agentic AI is a framework for accomplishing goals with limited supervision that consists of AI agents.

In multiagent systems, each agent performs a specific subtask that's required to reach the goal.

# Fundamental Shift in AI is underway

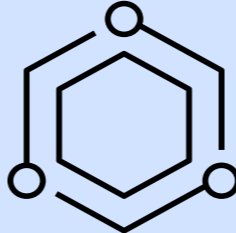
AI that can generate for you



## Models

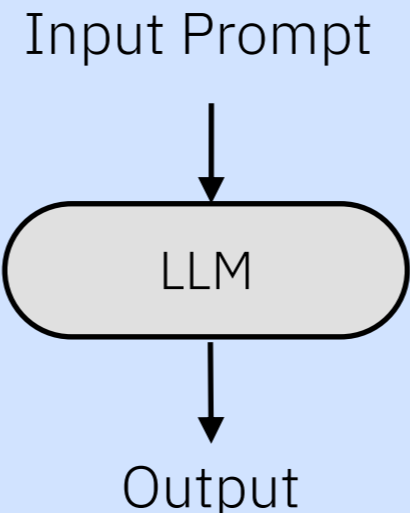
- Next Token Prediction
- Text Generation
- Pattern matching

AI that can chat for you



## Assistants

*Powered by single customized LLM*



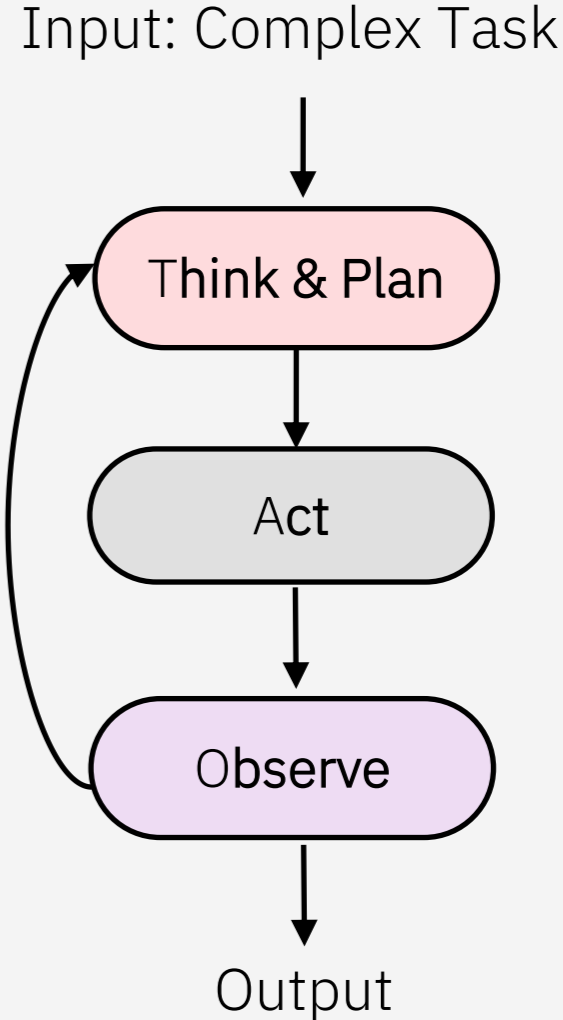
## Feed forward Systems

AI that can do for you



## Agents

*Powered by Think-Act-Observe loop*



## Feedback Systems

With agentic AI,  
today's front-end  
systems will become  
back-end systems.

# HR agent demonstration

**AI**

New chat +

**Active chat**

New chat  
Just now

**Recent**

Initiate employee transfer  
11:10 AM

View latest paystub  
10:30 AM

☀ Good afternoon 2:30 PM

# Hi! How can I help you?

Approve time off  
@HR Agent request time off for employee

→

Transfer employee  
@HR Agent initiate transfer to new department

→

Approve Purchase Order  
@Procurement Agent to show list of open POs

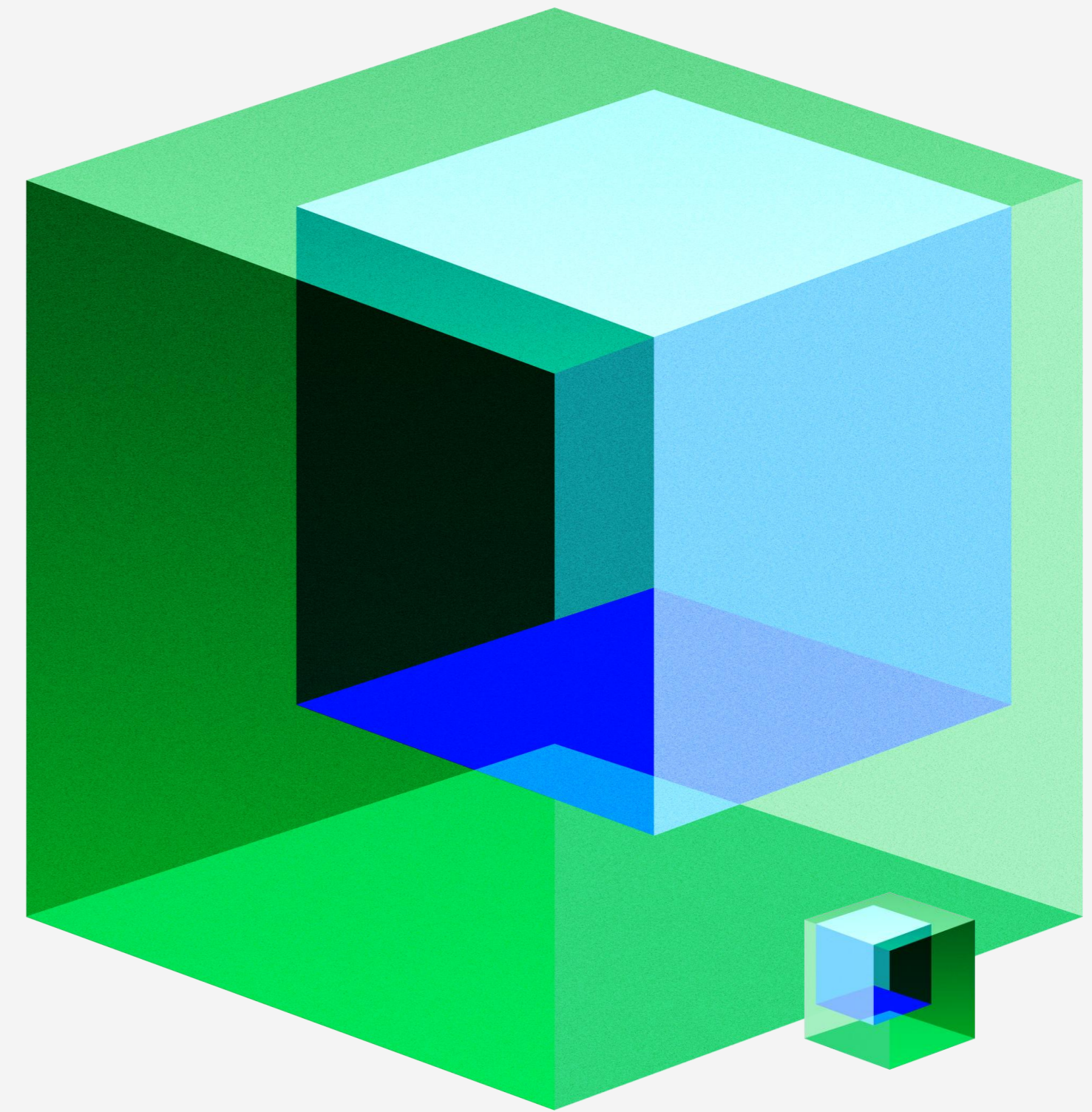
→

# Anatomy of an agent

# What is an AI agent?

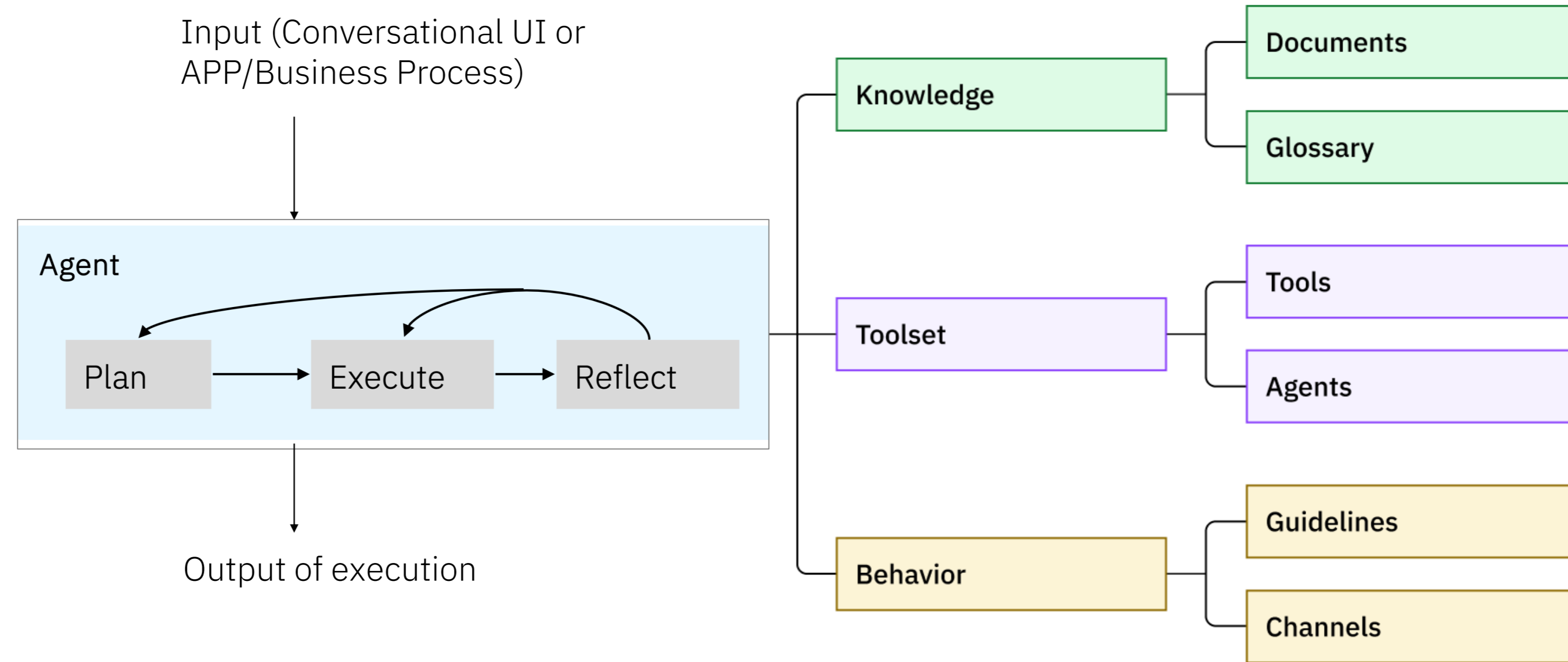
An AI agent is an application that can **act autonomously** to **understand**, **plan**, and **execute** a specific task.

AI agents use LLMs to reason and can interface with tools, other models, and other IT systems to **fulfill user goals**.

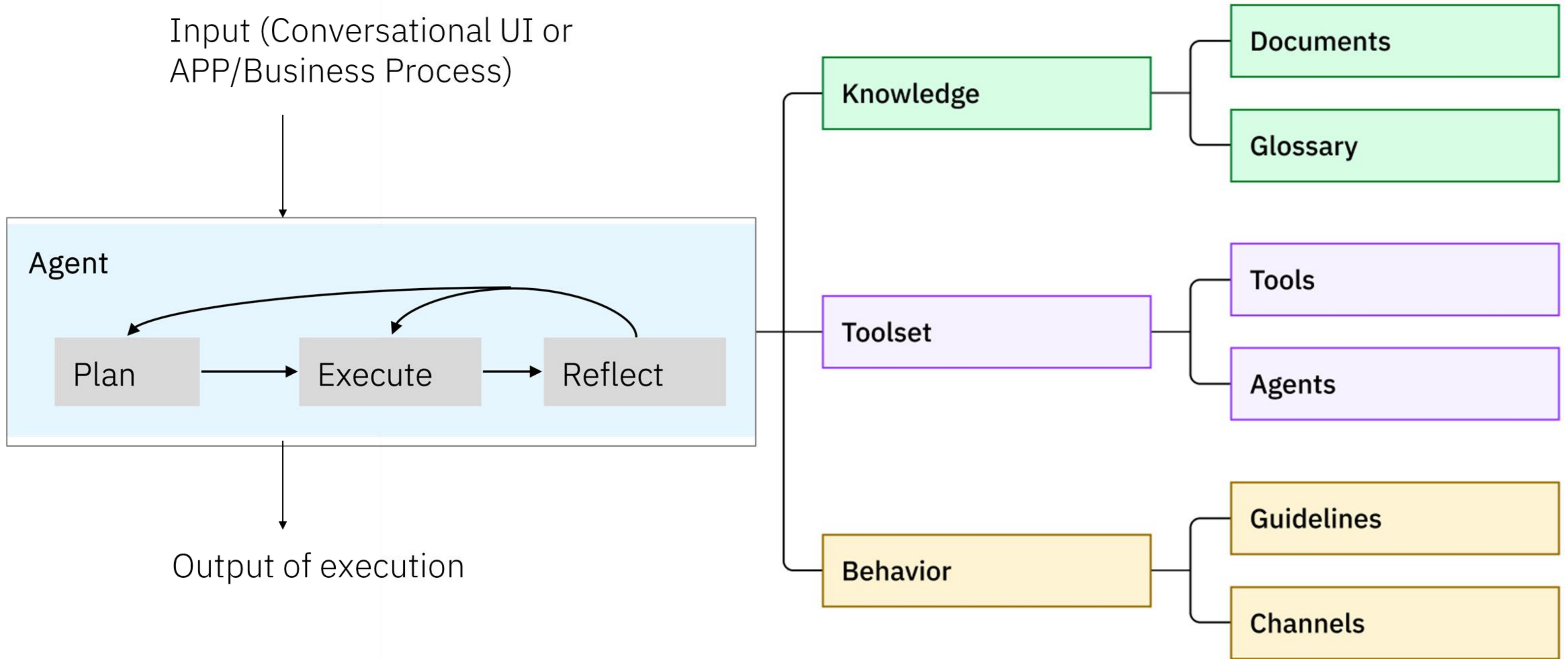


# AI Agents

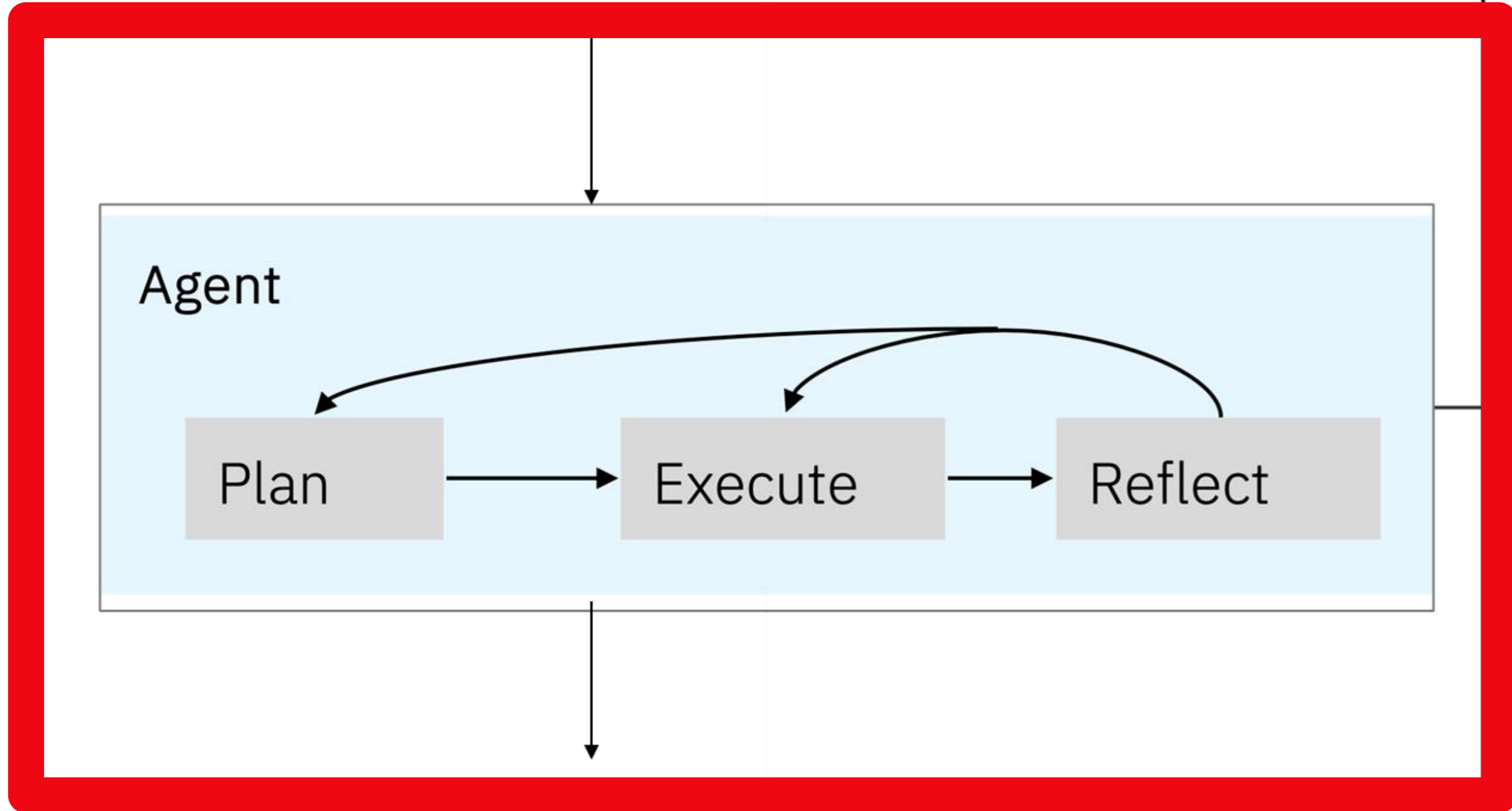
An AI agent is an **autonomous** system that can use **tools** and collaborate with other agents to **plan** and **act** on tasks. After it acts, the agent **reflects** on the results of its actions, learning iteratively and refining its approach to better align with its defined objectives.



The Orchestrator Agent is a multi-agent, multi-tool supervisor, router, and planner, facilitating complex task execution



Input (Conversational UI or APP/Business Process)



Output of execution

Knowledge

Documents

Glossary

Toolset

Tools

Agents

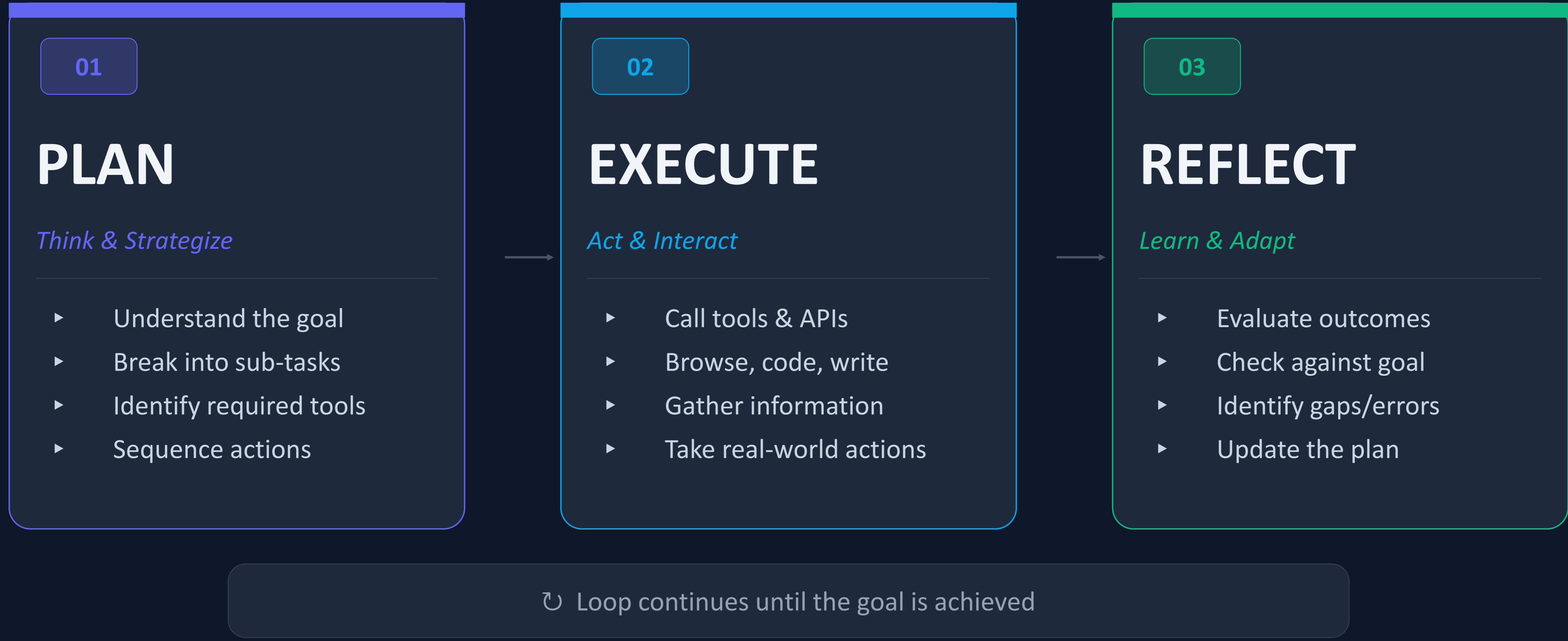
Behavior

Guidelines

Channels

# The Agentic AI Loop

How AI agents autonomously reason, act, and improve



# IBM Bob + Premium Package for i

Purpose-built AI for IBM i teams that protects institutional knowledge, scales your team, and accelerates modernization.

\* Now with the Premium Package for i – direct IBM i connectivity and standardized workflows with IBM i specific modes.

## The Challenge Your Team Faces →

## What Bob Delivers for Your Team

|                                |                                                                                      |                                                                                                                                             |
|--------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Knowledge concentration</b> | Critical business logic is concentrated in tribal knowledge, not in documentation.   | Instantly explain and document complex RPG, CL, DDS, SQL, and COBOL programs                                                                |
| <b>Slow onboarding</b>         | New hires take months to become productive on older codebases with no documentation. | Accelerate onboarding - new developers understand unfamiliar code in hours, not months                                                      |
| <b>Modernization pressure</b>  | Leadership wants progress, but maintenance backlogs consume available capacity.      | Shift team capacity from maintenance to modernization, e.g. convert legacy RPG to modern free-format safely, with unit tests before changes |
| <b>Continuity Risk</b>         | Every change request carries business continuity risk.                               | Reduce risk in every change cycle with AI-assisted analysis and test generation                                                             |

## Premium Package for i – The #1 Request from IBM i Teams

Direct connectivity to IBM i *unifies* developer workflow-  
Pre-built slash commands & skills *optimizes* Bob for IBM i.

[Fewer tools.](#) [Faster cycles.](#) [Higher team throughput](#)

- Bob connects to your IBM i and sees the full environment – source, copybooks, dependencies, call chains
- Your team stops being the middleware – they just ask the question and Bob has full context
- Specialized modes, pre-built slash commands & skills leads to higher accuracy and less token consumption for popular use cases



Preserve critical business logic



Scale senior knowledge across teams



Help new developers ramp faster



Reduce risk in change cycles



Shift from maintenance to modernization and innovation



Connected teams. No more silos.

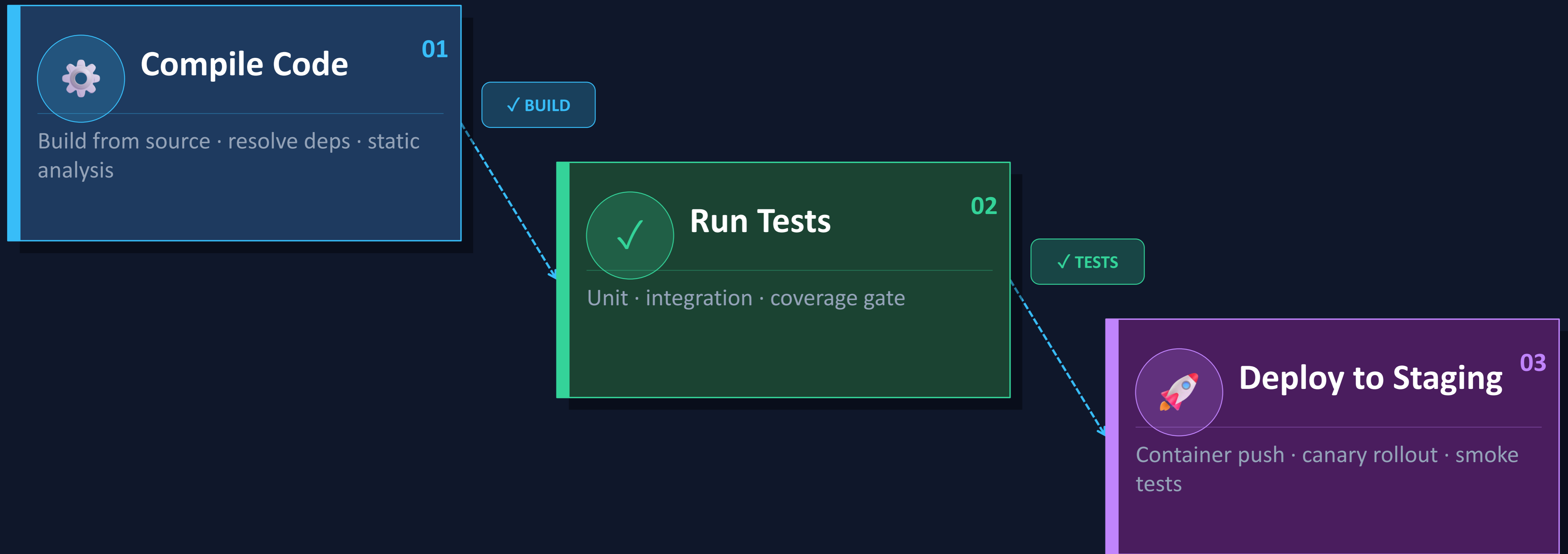
Understand · Explain · Refactor · Modernize · Test · Generate

Your IBM i Runs Everything. Bob Helps You Run Faster.

[Bob.ibm.com](https://bob.ibm.com)

# Agentic Software Development Flow

Cascading build, test and deployment workflow



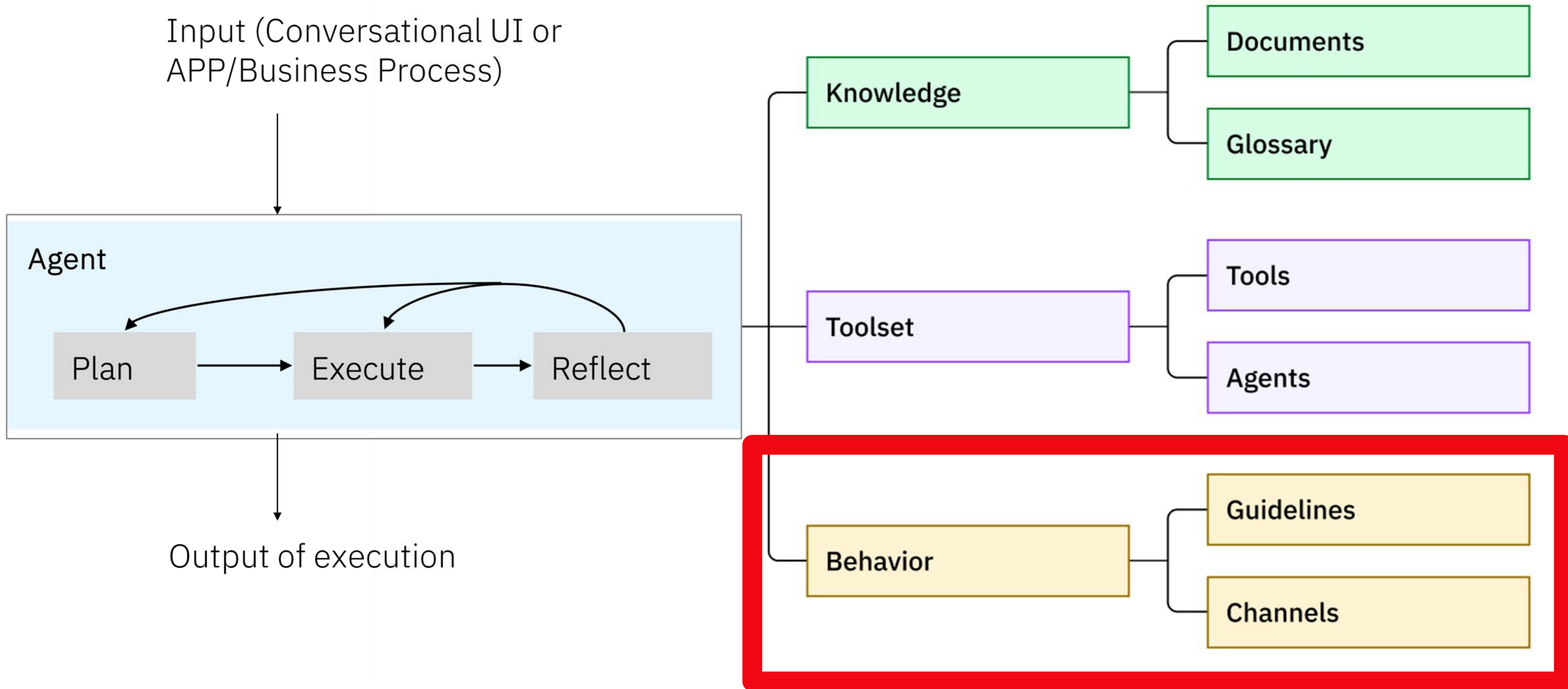
Pipeline Status:

● Compile

● Test

● Deploy

● All stages passing



# Human in the loop



I'll create a todo list and explore the impact of changing the SQL document file.

✓ Read file `src/language/sql/document.ts` >

Now let me find all files that reference this document:

Tools awaiting approval:

☐ Update Todo List

- Analyze the current SQL document file structure
- Find all files that import or reference this document
- Identify the key functions and classes in the document
- Determine downstream dependencies and usage patterns
- Summarize the impact of potential changes



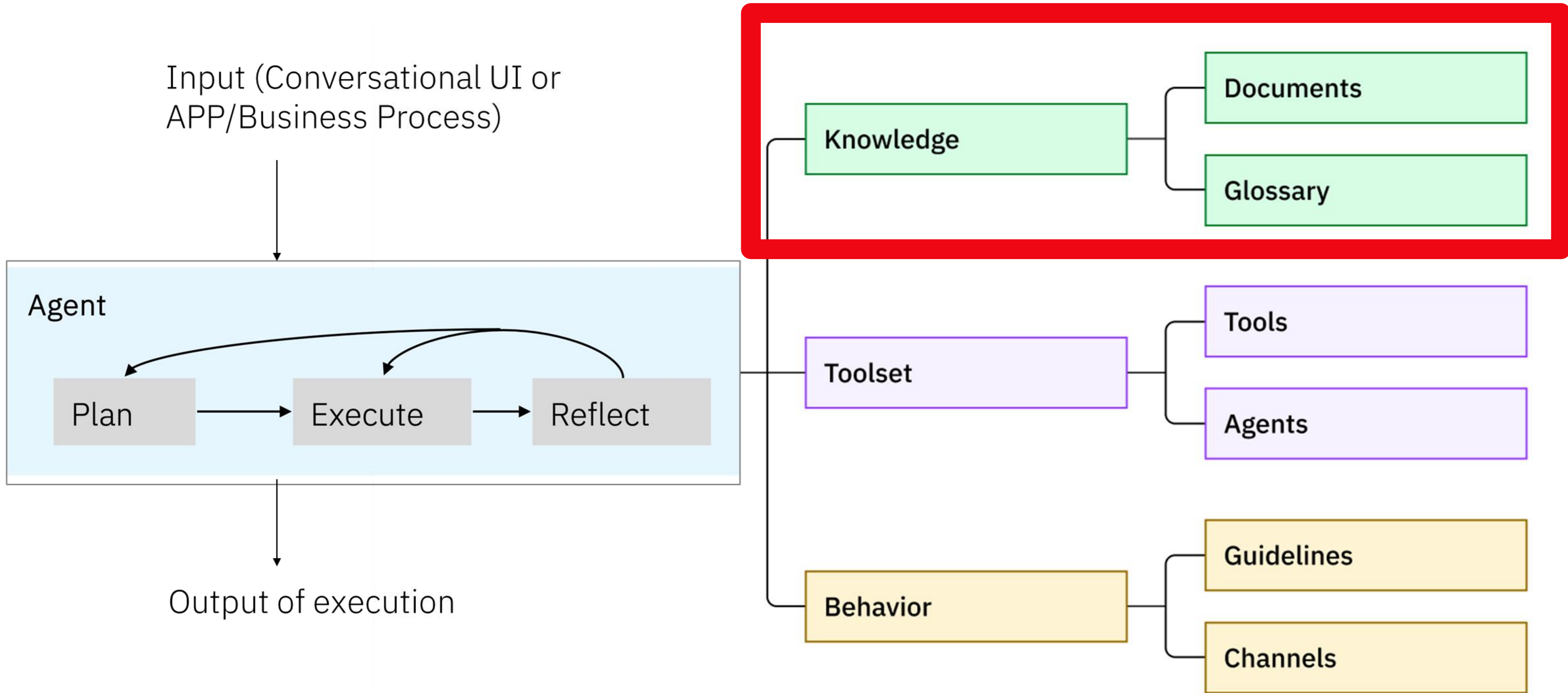
Approve once



Reject



Approve todo tools



# IBM watsonx in action

Examples for IBM i : Augmented documentary search

1. Retrieving the user request
2. Semantic search in a vector database pre-loaded with “business” documents. (Optional: watsonx.data)
3. Search result (paragraphs, “chunks”) given in context of the prompt (LLM model input).
4. Execution of the pre-trained model chosen by the developer with the appropriate context (here thanks to RAG)
5. Sourced response from the model to the user



## BRISTELL LSA AIRCRAFT MAINTENANCE AND INSPECTION PROCEDURES

This manual contains information necessary for operation and maintenance of the airplane  
S/N 033/2013 according to UL - 2, CS-VLA and LSA regulation.



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www.brmaero.com



Technical or Business Knowledge base



google/flan-ul2 |

ibm-meta/llama-2-70b-chat-q |

ibm-mistralai/mixtral-8x7b-instruct-v01-q (bam)

ibm/falcon-40b-8lang-instruct (bam)

ibm/granite-13b-chat-v1 (bam)

meta-llama/llama-2-70b-chat

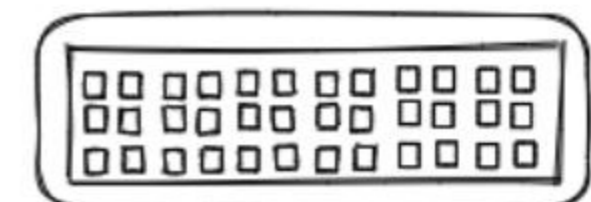
Foundation Model

watsonx.ai



given this context:  
**Context**  
What does the valve X do?

Prompt



Initialization Chatbot

Chat History

How do I remove the canopy?

User

Files:

- 1) source: Maintenance-Manual.pdf, page: 29
- 2) source: Maintenance-Manual.pdf, page: 30
- 3) source: Maintenance-Manual.pdf, page: 31
- 4) source: Maintenance-Manual.pdf, page: 33

To remove the canopy, follow these steps:

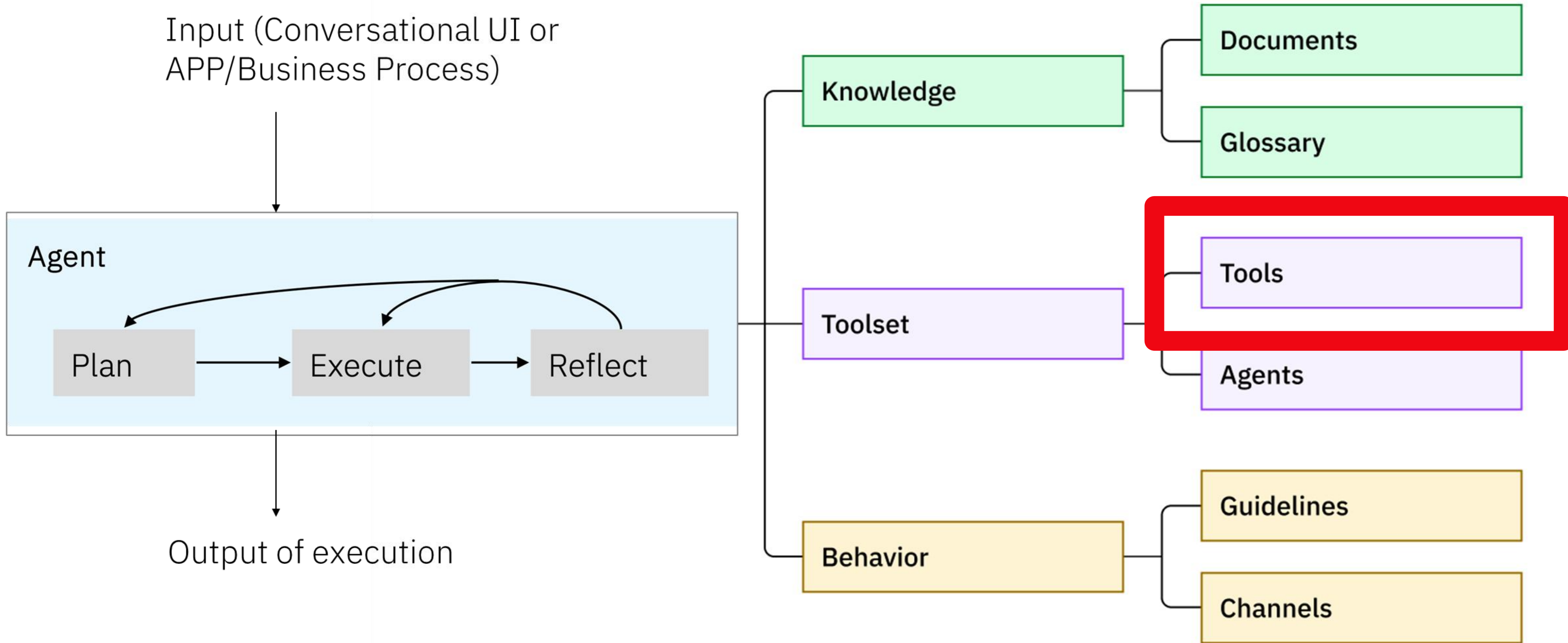
1. Open the canopy.
2. Remove the securing springs from the gas strut rod ends.
3. Disconnect the gas struts on both sides of the canopy.
4. Disconnect the hinge bolt nuts.
5. Remove the hinge bolts.
6. Remove the canopy and store it in a safe place to prevent windscreen damage.

Reference: Figure 3-3 and paragraph 3.3.1 of the provided documentation.

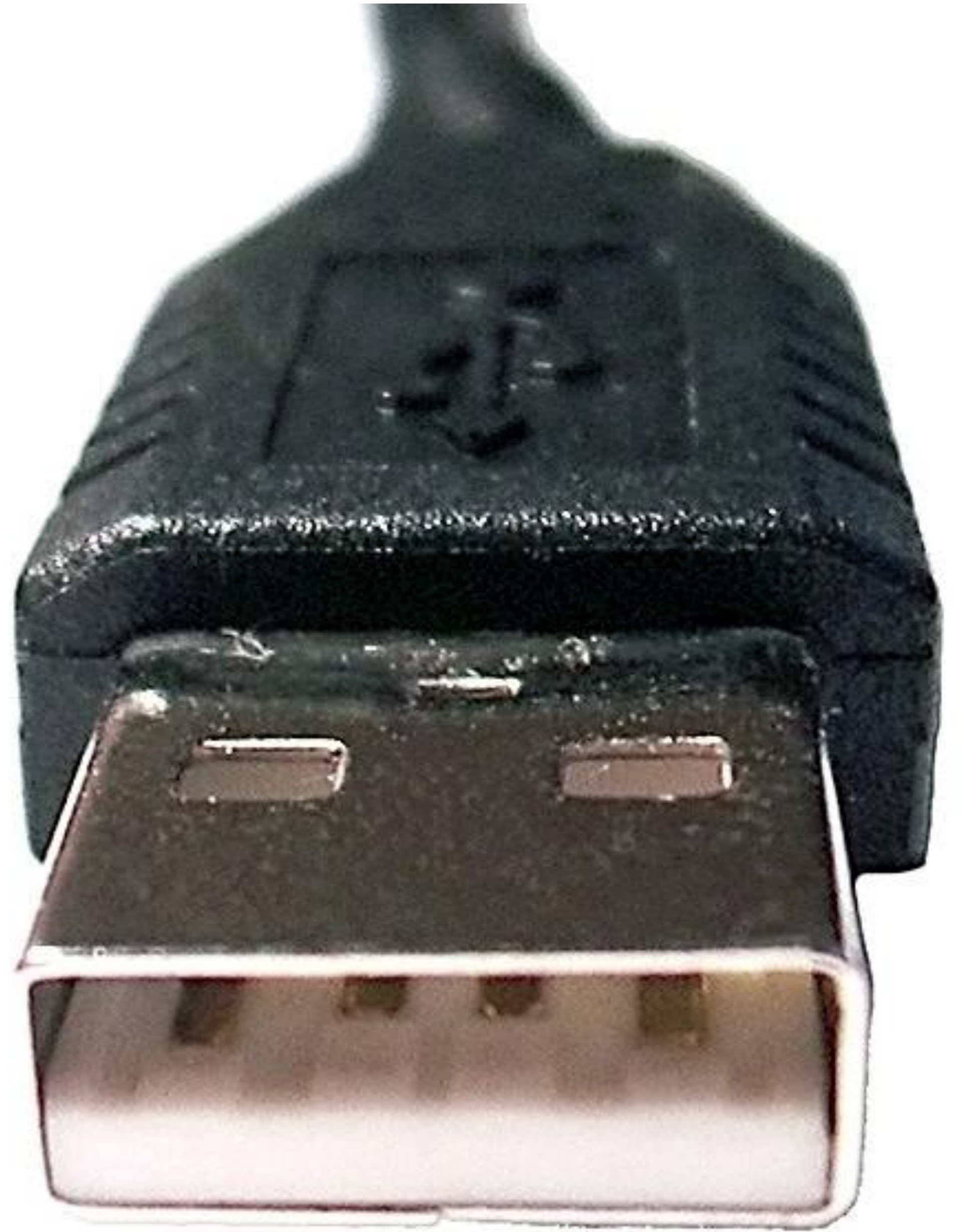
Example of app (huggingface)

Try now :

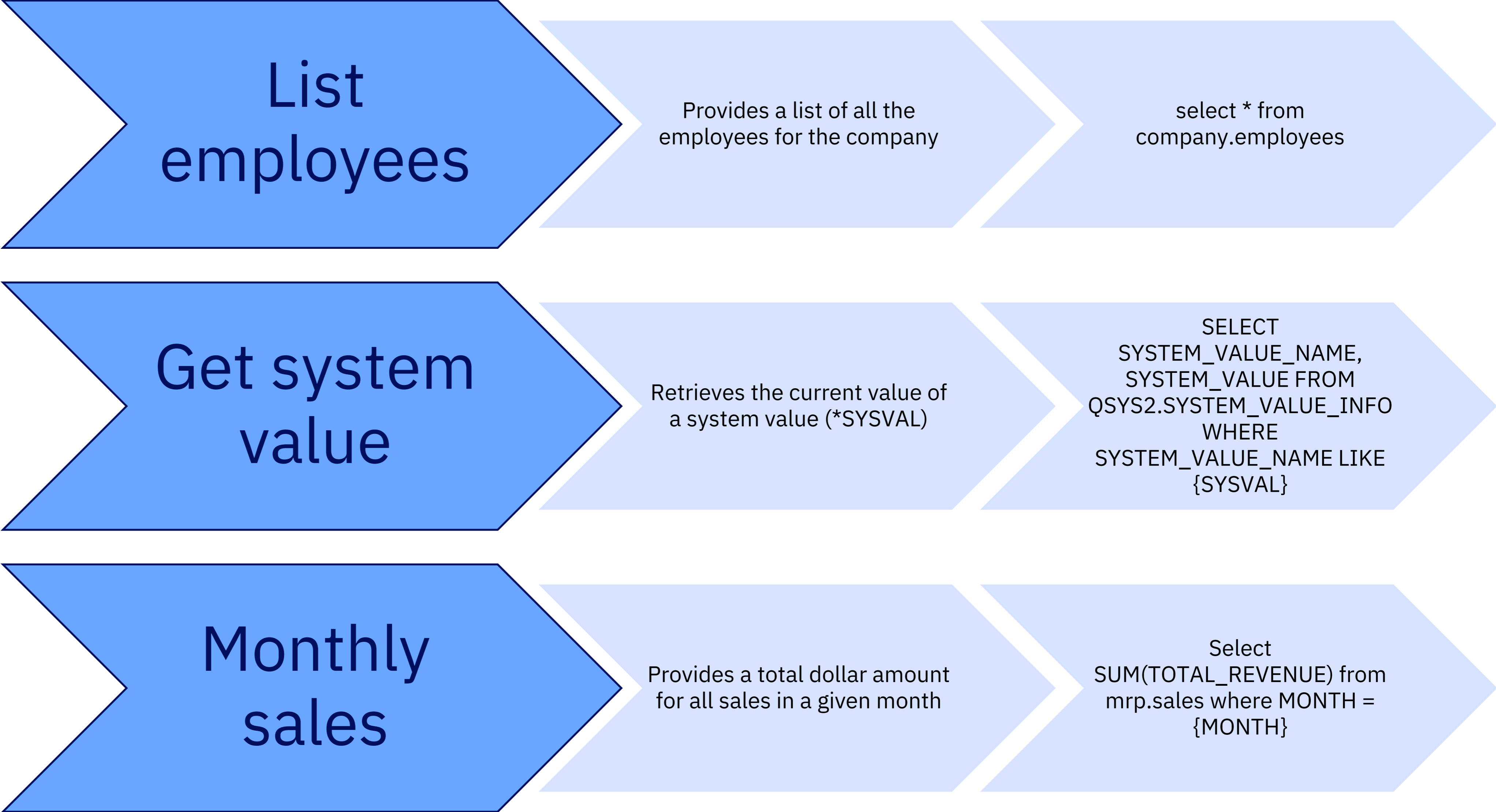
1. <https://www.ibm.com/fr-fr/watsonx>
2. <https://huggingface.co/spaces/arslan-ahmed/talk-to-your-docs>



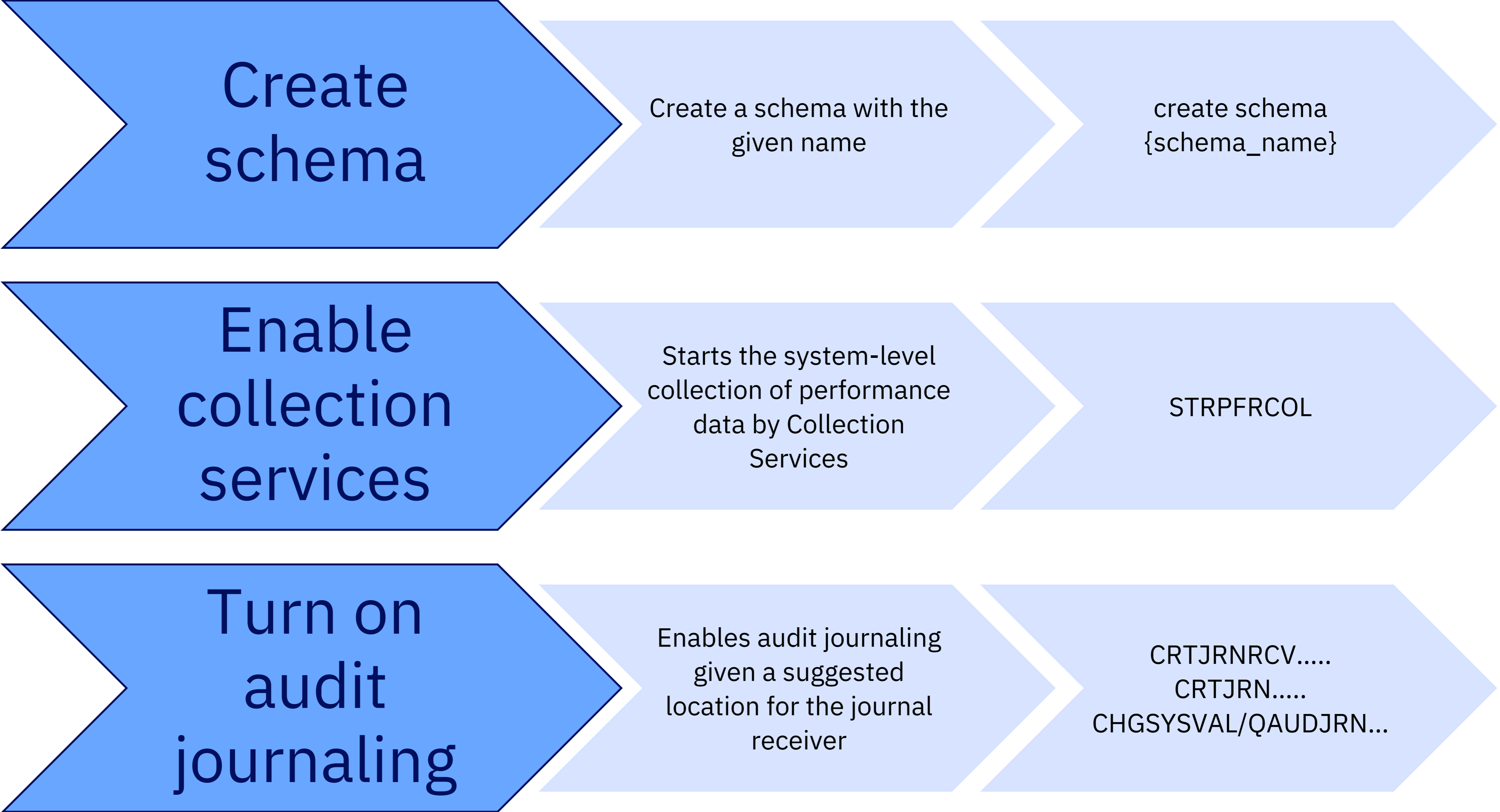
# Model Context Protocol (MCP)



# Mapping natural language to discrete data



# Mapping natural language to discrete actions



# Deterministic vs Non-Deterministic Computing

Two fundamental paradigms for how a system responds to inputs

## DETERMINISTIC

*Same input → same output, always*

**Behavior**

Fully predictable

**Examples**

Sorting algo, calculators, SQL

**Debuggability**

Easy — repeatable bugs

**Creativity**

None — follows fixed rules

**Best For**

Safety-critical, auditable systems

VS

## NON-DETERMINISTIC

*Same input → potentially different outputs*

**Behavior**

Probabilistic / stochastic

**Examples**

LLMs, neural nets, quantum

**Debuggability**

Hard — bugs may not reproduce

**Creativity**

High — emergent, novel outputs

**Best For**

Open-ended, creative tasks

 **Key Insight**

Agentic AI blends both: deterministic infrastructure (pipelines, retrieval) + non-deterministic reasoning (LLM inference)

# Universal MCP Server for i

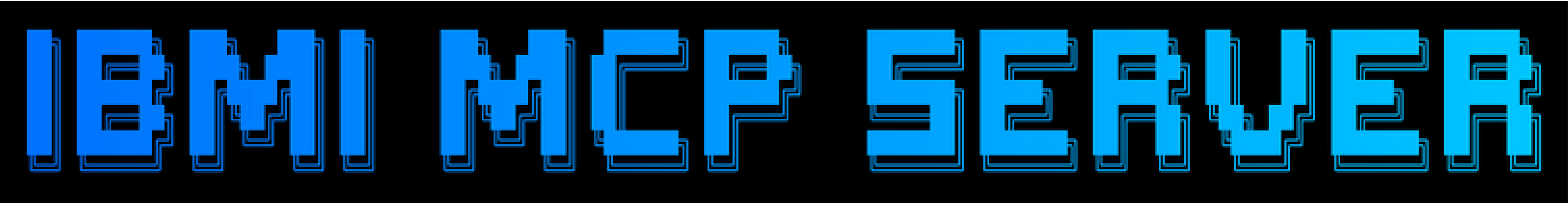
<https://ibm.biz/ibmi-mcp>

 **ibmi-mcp-server** Public

MCP server for IBM i

|            |        |                                                                                                   |         |          |            |         |       |          |        |         |            |
|------------|--------|---------------------------------------------------------------------------------------------------|---------|----------|------------|---------|-------|----------|--------|---------|------------|
| TypeScript | ^5.8.3 | MCP SDK                                                                                           | ^1.17.1 | MCP Spec | 2025-06-18 | Version | 1.9.1 | Coverage | 64.67% | License | Apache 2.0 |
| Status     | Stable |  Ask DeepWiki |         |          |            |         |       |          |        |         |            |

 [Documentation](#) |  Docs are under active development



## Message

What is the total compensation of employee 000010?

## Tool Calls

- `fetch_employee_info(id=000010)`

## Response (5.0s)

```
[{'EMPNO': '000010', 'FIRSTNME': 'CHRISTINE', 'MIDINIT': 'I', 'LASTNAME': 'HAAS', 'WORKDEPT': 'A00',  
'JOB': 'PRES', 'EDLEVEL': 18, 'SEX': 'F', 'BIRTHDATE': None, 'SALARY': 52750.0, 'BONUS': 1000.0, 'COM'  
employee 000010, Christine I. Haas, is calculated as follows:
```

- **Salary:** \$52,750.00
- **Bonus:** \$1,000.00
- **Commission:** \$4,220.00

**Total Compensation:** \$52,750.00 (Salary) + \$1,000.00 (Bonus) + \$4,220.00 (Commission) = **\$57,970.00**

Message

What is the total compensation of employee 000010?

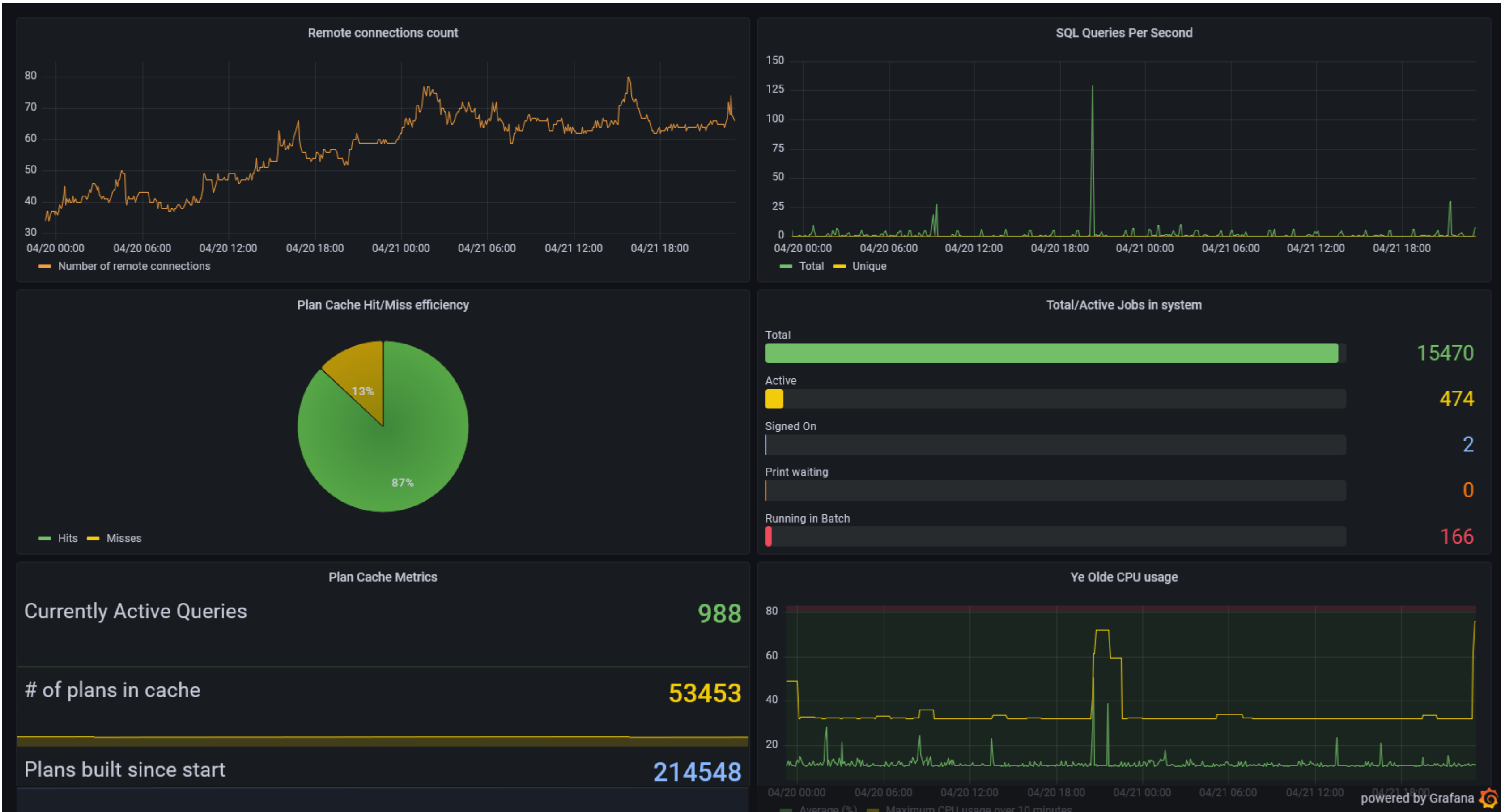
## Tool Calls

- `fetch_employee_info(id=000010)`

**Total Compensation: \$52,750.00 (Salary) + \$1,000.00 (Bonus) + \$4,220.00 (Commission) = \$57,970.00**

# Scenario:

Grafana Dashboard monitors system metrics **or live business data** around the clock



<https://ibm.biz/ibmi-prometheus>



# Grafana MCP (<https://github.com/grafana/mcp-grafana>)

Integrate contents of Grafana dashboards with any agentic AI solution

## Extensions

Allow Claude to directly interact with apps, data, and tools on your computer.

## Installed on your computer



Grafana MCP Server

# Agent skills

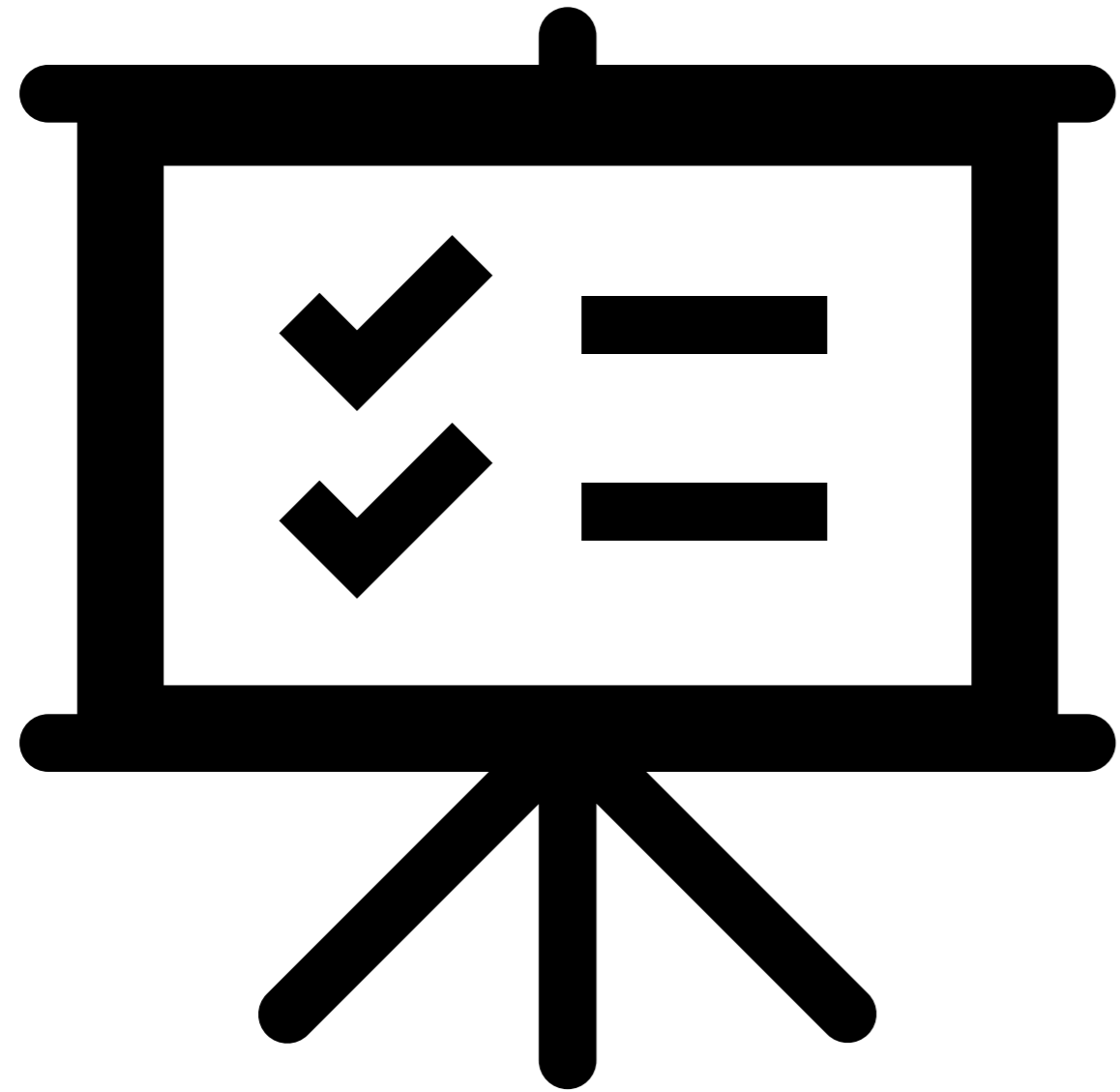
Encapsulation of how to perform a task

Consists of:

- Instructions
- Metadata
- Scripts or other resources if needed

```
1 ---
2 name: attack-vectors
3 description: >
4   Procedures for investigating IBM i privilege escalation attacks. Load when:
5   (1) investigating trigger attacks, rename attacks, or adopted authority
6   exploitation, (2) correlating authority exposure with exploitable attack paths,
7   (3) assessing compound attack chains that escalate individual findings.
8 ---
9
10 # Attack Vectors & Privilege Escalation
11
12 Procedures for investigating how authority weaknesses chain into active
13 privilege escalation. These investigations answer: "How can an attacker
14 use these exposures to gain elevated access?"
15
16 ## Quick Dispatch
17
18 | Vector | MCP Tool | Severity |
19 |-----|-----|-----|
20 | Trigger Attack | `list_db_files_exposed_to_trigger_attack` | CRITICAL |
21 | Rename Attack | `list_files_exposed_to_rename_attack` | CRITICAL |
22 | Adopted Authority | `list_adopted_authority_programs_with_public_access` | HIGH-CRITICAL |
23 | Command Authority | `list_public_authority_on_attack_vector_commands` | HIGH |
24
25 Load `attack-procedures.md` for full investigation steps per vector.
26
27 ## Critical Gotchas
28
29 - NAMING(*SQL) defaults USRPRF(*OWNER) for BOTH static AND dynamic SQL - many
30   programs adopt authority unknowingly. Always check DYNUSRPRF settings.
31 - Trigger programs execute under the adopted authority of the *accessing* program,
32   NOT the trigger creator - this is the core escalation mechanism.
33 - Rename attack creates a view that looks identical to the original table. Even
34   read-only access triggers malicious code in the WHERE clause.
35 - Heritage Navigator is known to be exposed to trigger attacks.
36
37 ## Compound Risk Patterns
38
39 Watch for combinations that escalate severity. See `compound-risk-patterns.md`
40 for the 6 named chains (Identity Takeover, Library List + Trigger, Trigger +
41 Adopted Authority, Rename + View Substitution, SQL Injection + Command Execution,
42 Service Account Exposure).
43
44 When you detect a compound pattern, call it out explicitly and escalate severity.
45
```

Imagine if an AI agent had a PowerPoint skill....



# Scenario:

Db2 database has:

- Sales data by quarter and region

Please pull the sales data and build a powerpoint presentation with any interesting insights or trend patterns called out

S A L E S   P E R F O R M A N C E

# Annual Overview

*Regional Sales Analysis · All Four Quarters*

**Total Annual Revenue: \$2.43M · 4 Regions · 4 Quarters**

# Key Performance Highlights

**\$2.43M**

Annual Revenue

**Q4 — \$650K**

Best Quarter

**East — \$700K**

Top Region

**South — \$500K**

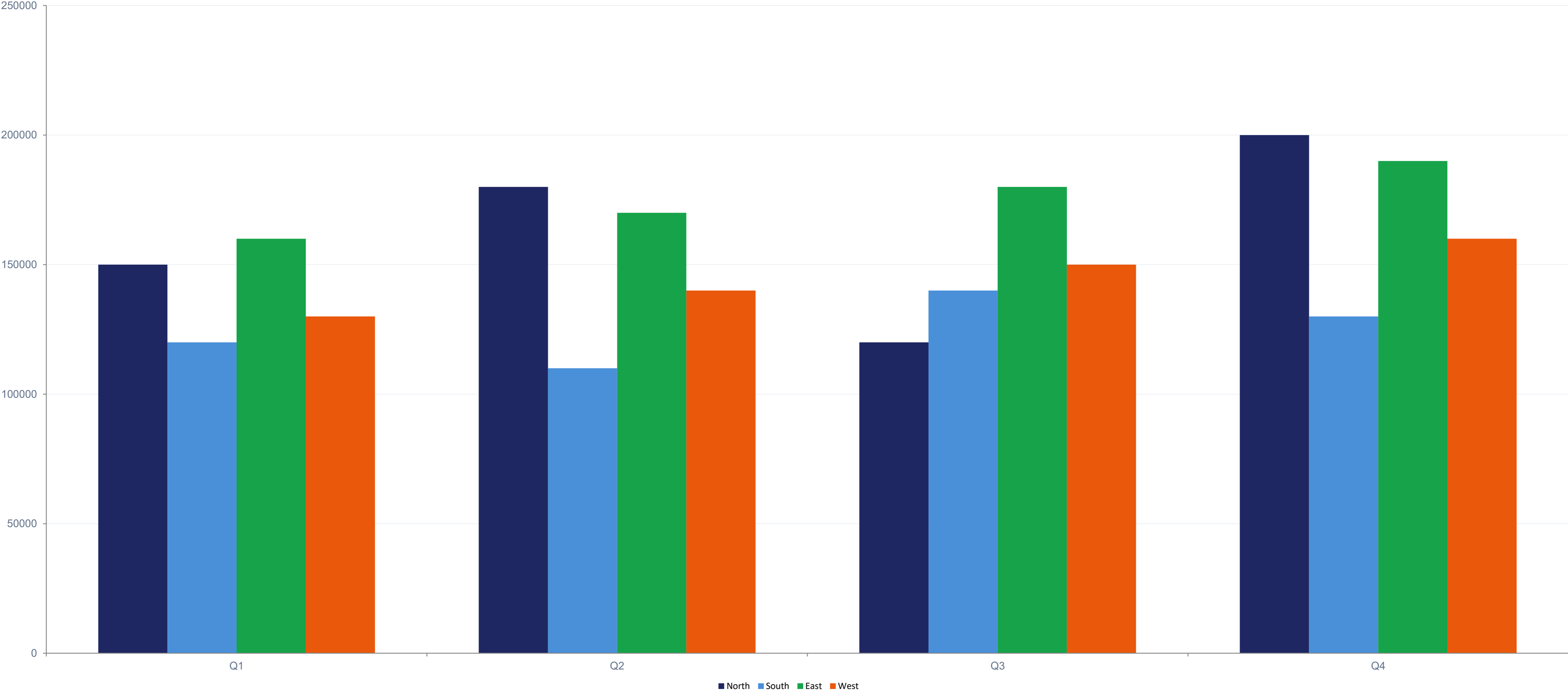
Weakest Region

## Key Insights

- East Region leads with consistent quarter-over-quarter growth every single period (+\$10K/quarter)
- North recorded a mid-year dip in Q3 (-\$60K vs Q2) but recovered strongly to become Q4 champion at \$200K
- South shows mid-year weakness — a Q2 dip to \$110K — but recovered to close Q4 at \$130K, slightly above its Q1 opening of \$120K

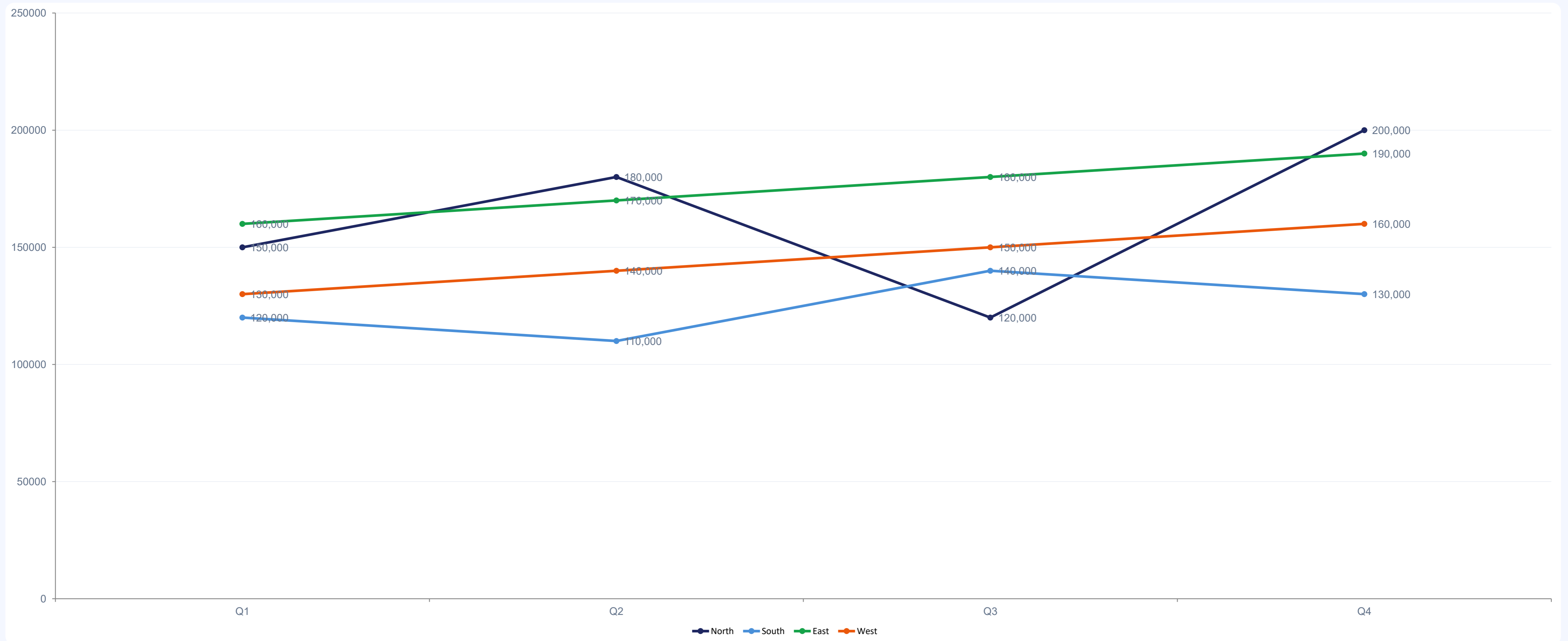
# Regional Sales by Quarter

*Grouped comparison of all four regions across each quarter*



# Sales Trend Analysis

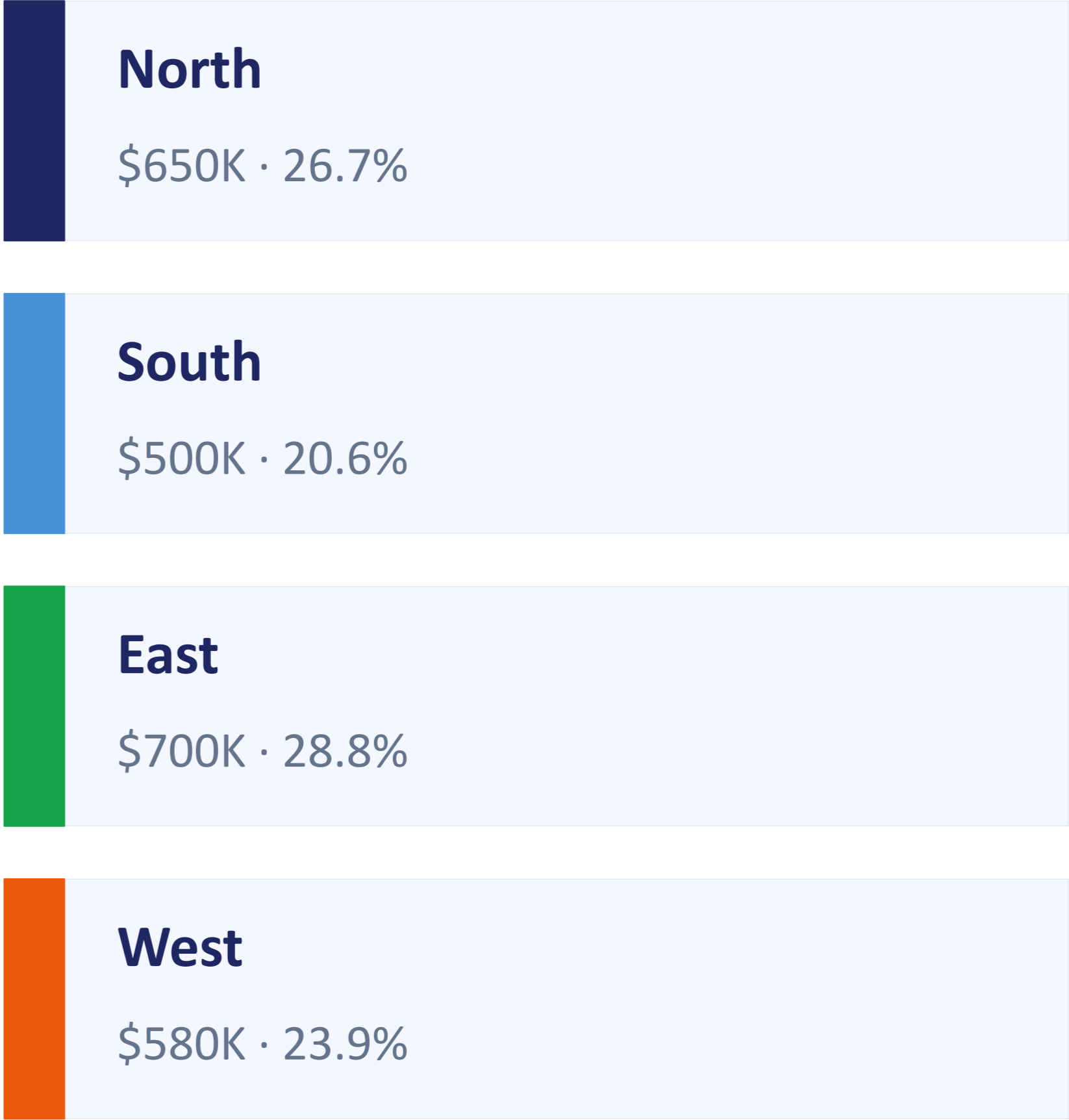
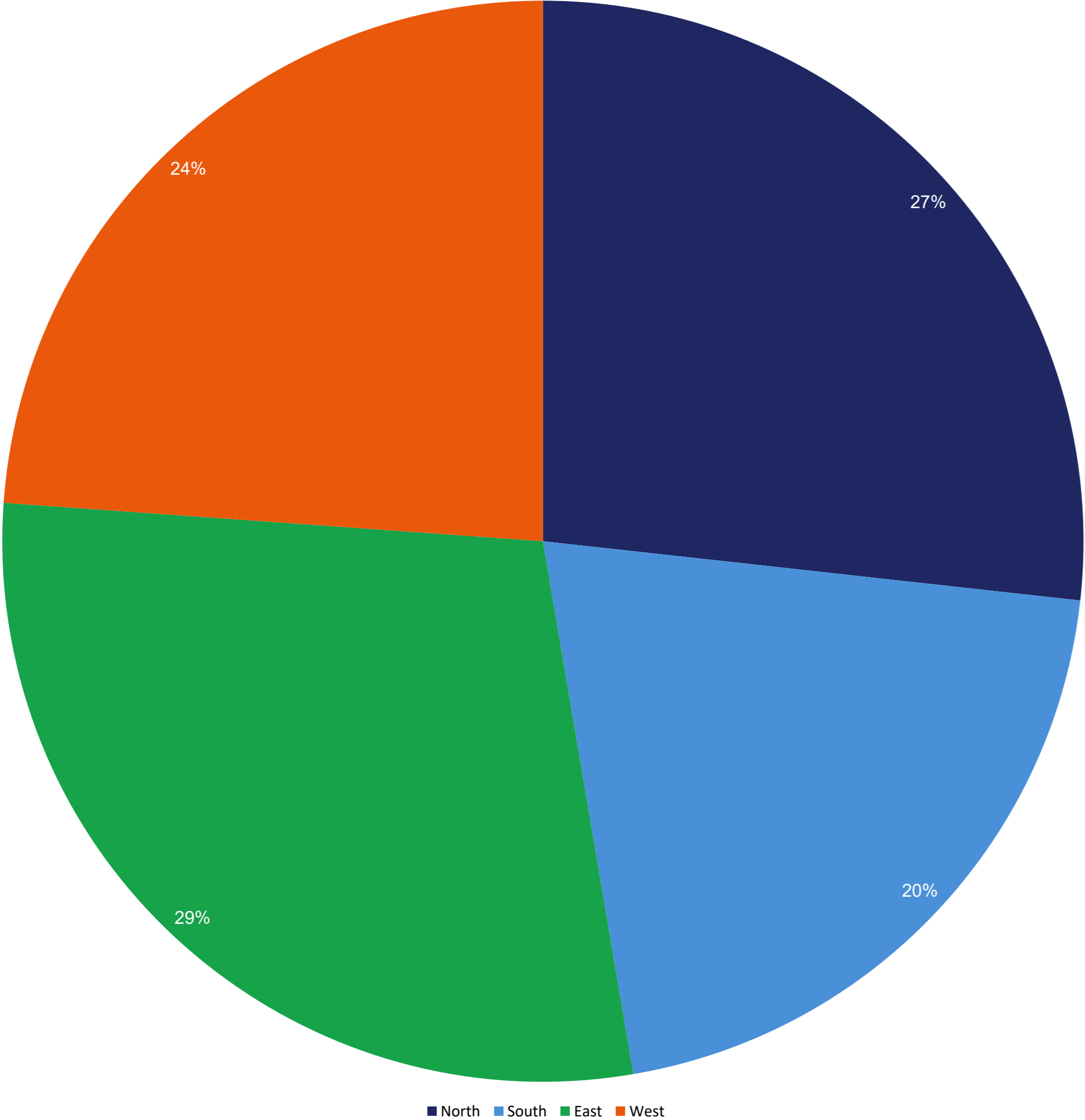
*Quarter-over-quarter trajectory reveals diverging regional fortunes*



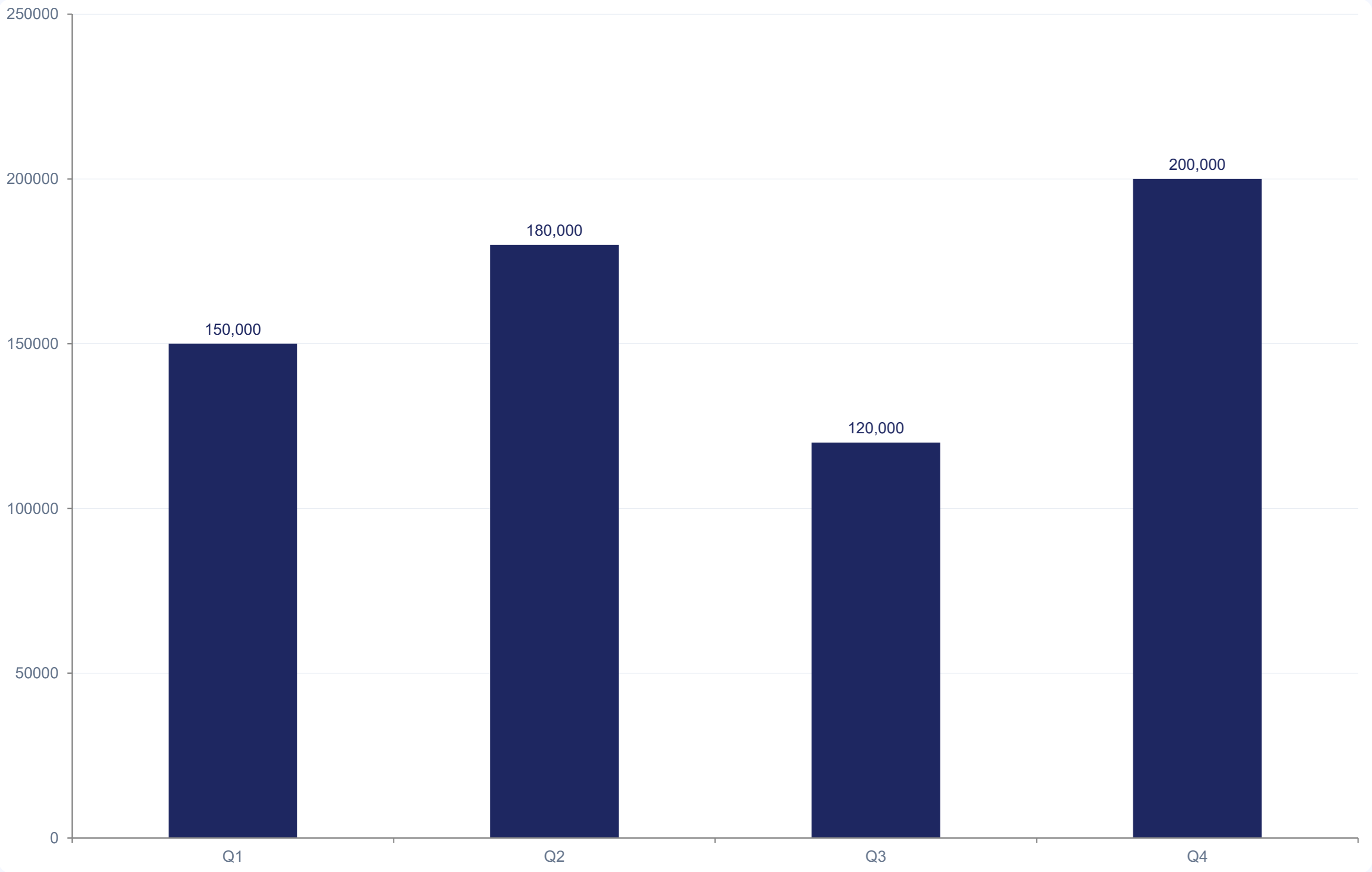
*East shows the only perfectly linear upward trend (+\$10K every quarter). North is most volatile (−\$60K dip in Q3, then +\$80K rebound in Q4).*

# Annual Revenue Share by Region

*East and North together account for 54% of total revenue*



# Spotlight: North Region Volatility

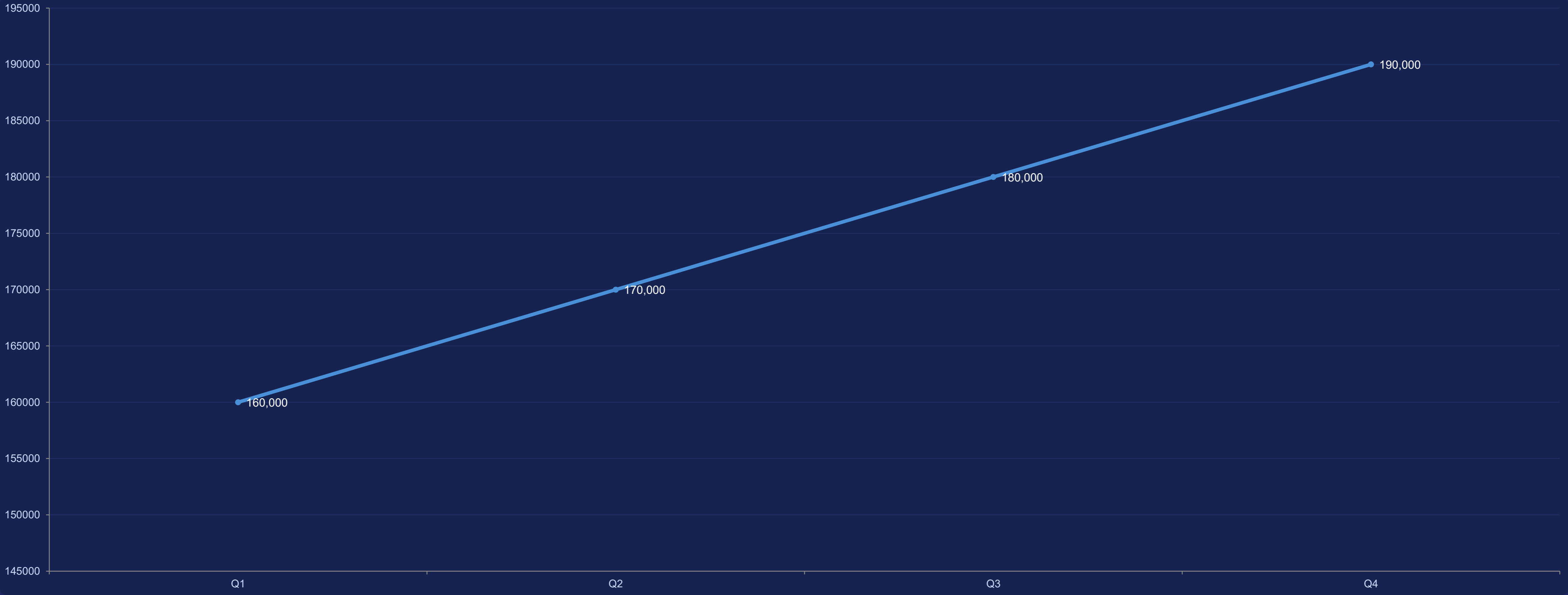


- Q1 → Q2**  
+\$30K growth (+20%)
- Q2 → Q3**  
-\$60K sharp drop (-33%)
- Q3 → Q4**  
+\$80K strongest surge (+67%)
- Full Year**  
\$650K total; Q4 best quarter

▀ Recommendation: Investigate Q3 drivers for North — understanding the cause of this recurring seasonal dip could unlock \$50K–\$80K in recoverable revenue.

# East Region: Consistent Growth Story

*The only region delivering uninterrupted quarter-over-quarter growth*



**Q1: \$160K**

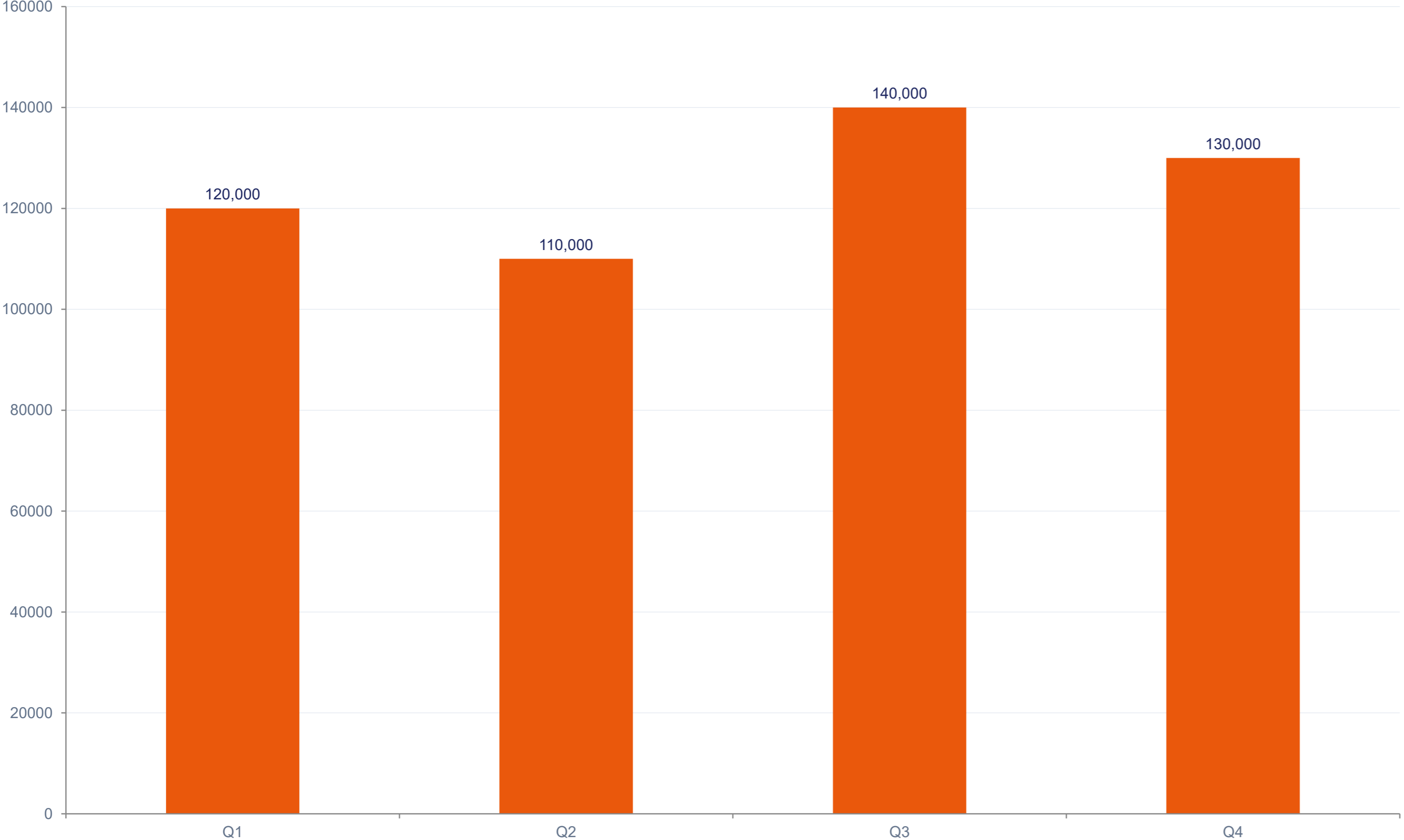
**Q2: \$170K**

**Q3: \$180K**

**Q4: \$190K**

# South Region: Performance Watch

Mid-year volatility masks a modest full-year gain — Q4 closed at \$130K vs Q1's \$120K



## Findings

- Q2 dip to \$110K — the sharpest Q2 drop of any region (-8%)
- Strong rebound in Q3 to \$140K — South's best quarter of the year
- Q4 closed at \$130K — a net +\$10K vs Q1 (\$120K), a modest positive year-over-year
- Full-year total \$500K — lowest of four regions, \$200K behind the East

Watch list: South shows positive net growth (+\$10K) but remains the weakest region overall. Focus on sustaining Q3 momentum into Q4 to close the gap with East and North.

# Strategic Recommendations

## 01 Scale East's Playbook

East's linear growth model (\$+10K/quarter) should be studied and replicated across other regions as a proven best practice.

## 02 Diagnose North's Q3 Dip

North's Q3 decline is significant (−33%). Root cause analysis could recover \$50K–\$80K in future cycles.

## 03 Sustain South's Q3 Momentum

South achieved its best quarter in Q3 (\$140K) but gave back gains in Q4. Focus on carrying that mid-year energy through to year-end.

## 04 Capitalize on Q4 Momentum

Q4 was the strongest quarter company-wide at \$650K. Identify Q4 drivers and build them into Q1 of next year to sustain momentum.



**Watching people use AI  
to build their presentations**

Scenario:

Analyse the system security and  
build a presentation

CONFIDENTIAL — INTERNAL USE ONLY

# IBM i Security Audit Report

Vulnerability Assessment & Mitigation Recommendations

April 21, 2026

 ACTION REQUIRED

# Executive Summary

1

Critical  
Vulnerable Libraries

7

Warning  
Limited-User Commands

2

Passed  
Controls Verified

QGPL library has \*CHANGE authority for \*PUBLIC — the most critical finding requiring immediate remediation.

No user profiles vulnerable to impersonation were detected — a positive control outcome.

CHGSYSLIBL command is properly locked to \*EXCLUDE for \*PUBLIC — good baseline hardening confirmed.

7 commands are accessible to limited-capability users, including STRPCO (PC Organizer) — review and restrict as needed.

# Library Authority Misconfiguration — QGPL

## Finding Details

|                           |                  |
|---------------------------|------------------|
| <b>Library:</b>           | QGPL             |
| <b>User:</b>              | *PUBLIC          |
| <b>Authority Granted:</b> | *CHANGE          |
| <b>Expected:</b>          | *USE or *EXCLUDE |
| <b>Risk Level:</b>        | <b>CRITICAL</b>  |

## Mitigation Steps

1. Immediately revoke \*CHANGE authority from \*PUBLIC on QGPL
2. Grant \*USE authority to \*PUBLIC (read-only access for library browsing)
3. Run:  

```
GRTOBJAUT OBJ(QGPL) OBJTYPE(*LIB)  
USER(*PUBLIC) AUT(*USE)
```
4. Review all objects in QGPL for their individual authorities
5. Audit who placed objects in QGPL with elevated access

# Commands Accessible to Limited-Capability Users

The following commands were detected with ALLOW\_LIMITED\_USER = YES. While some are acceptable, STRPCO (PC Organizer) may expose unintended external connectivity.

| Command   | Library | Risk   | Notes                                                     |
|-----------|---------|--------|-----------------------------------------------------------|
| STRPCO    | QIWS    | Medium | Start PC Organizer — review if external comms needed      |
| DSPJOB    | QSYS    | Low    | Display Job — informational, generally acceptable         |
| DSPJOBLOG | QSYS    | Low    | Display Job Log — acceptable for users to see own jobs    |
| DSPMSG    | QSYS    | Low    | Display Messages — standard user utility                  |
| SNDMSG    | QSYS    | Low    | Send Message — standard; restrict if messaging not needed |
| WRKMSG    | QSYS    | Low    | Work with Messages — standard user utility                |
| SIGNOFF   | QSYS    | None   | Sign Off — required for all users                         |

# Security Controls That Are Properly Configured

## ✓ No User Profiles Vulnerable to Impersonation

All user profiles on the system have \*PUBLIC authority set to \*EXCLUDE. This means no profile can be adopted or impersonated via object authority exploitation. This is a strong positive control.

**Result: 0 profiles returned — CLEAN**

## ✓ CHGSYSLIBL Command Locked Down

The Change System Library List (CHGSYSLIBL) command is restricted to \*EXCLUDE for \*PUBLIC. This prevents unauthorized users from altering the system library list, which could otherwise be used to intercept program calls or inject malicious libraries.

**Result: \*EXCLUDE — CORRECT**

# Risk & Priority Matrix

Prioritized remediation roadmap based on severity and ease of fix

| #  | Finding                              | Severity | Effort | Timeline              |
|----|--------------------------------------|----------|--------|-----------------------|
| P1 | QGPL *PUBLIC *CHANGE Authority       | Critical | Low    | Immediate (24 hrs)    |
| P2 | STRPCO Accessible to Limited Users   | Medium   | Low    | This Sprint (1 week)  |
| P3 | SNDMSG Accessible to Limited Users   | Low      | Low    | Next Sprint (2 weeks) |
| P4 | Review All Limited-User Commands     | Low      | Medium | 30 Days               |
| P5 | Establish Library Authority Baseline | Low      | High   | 60 Days               |

# Remediation Commands

Ready-to-run CL commands to resolve identified vulnerabilities

## Fix QGPL Library Authority (CRITICAL — Run First)

```
GRTOBJAUT OBJ(QSYS/QGPL) OBJTYPE(*LIB) USER(*PUBLIC) AUT(*USE)
```

## Restrict STRPCO for Limited-Capability Users (Recommended)

```
RVKOBJAUT OBJ(QIWS/STRPCO) OBJTYPE(*CMD) USER(*PUBLIC) AUT(*EXCLUDE)
```

## Verify Library List After Changes

```
DSPOBJAUT OBJ(QSYS/QGPL) OBJTYPE(*LIB)
```

 *Test in a non-production environment before applying to production. Ensure you have a current backup.*

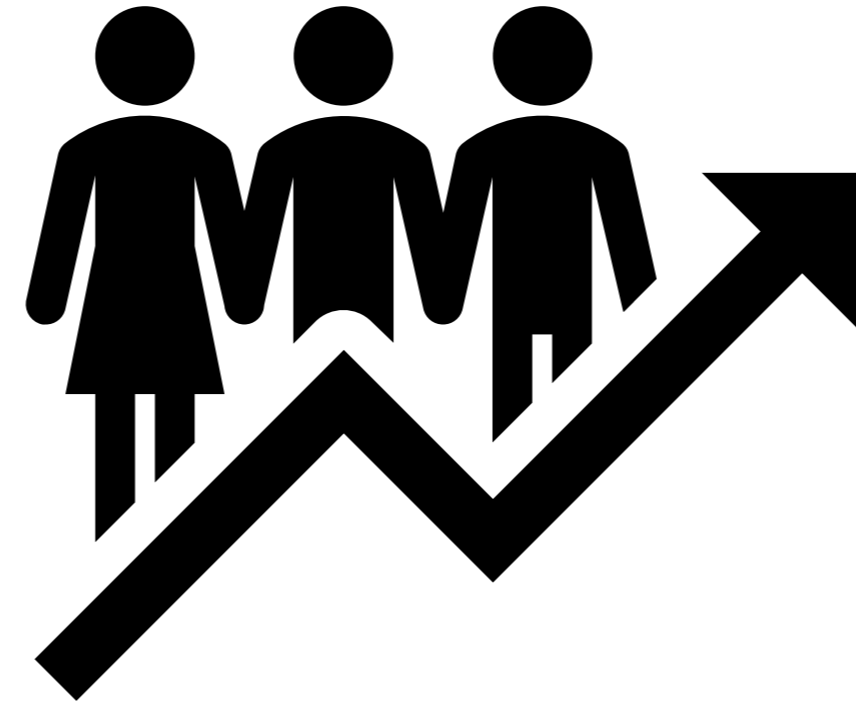
# Next Steps & Conclusion

- 1 Apply GRTOBJAUT fix to QGPL within 24 hours — this is the only critical finding.
- 2 Review STRPCO and SNDMSG accessibility for limited-capability users with your security officer.
- 3 Establish a quarterly library authority review process to catch regressions.
- 4 Consider enabling object auditing (CHGUSRAUD / CHGOBJAUD) to track future authority changes.
- 5 Schedule a follow-up audit in 30 days to verify all remediations have been applied.

**Overall Posture: MODERATE RISK — One Critical Item Requires Immediate Attention**



Trust.....



---

..... But verify!



# Scenario:

Db2 database has:

- Information on lumber items
- Supplier information

Reminder:

- Db2 can call external APIs to populate column within a result set



A client would like to build a raised flower bed. Help me plan the project by building a Powerpoint slide deck. Make the colors spring-themed (and maybe even include some flowers or something).

In the powerpoint deck, please do the following:

- First, determine which type of wood would be best for the project and explain why.

Use this wood type for all subsequent work

- Come up with three different project plans (fastest lead time, fewest suppliers, and lowest cost) based on the following needed materials (assume all are 8 feet):

- 4 1x8s

- 25 2x4s

- 8 4x4s

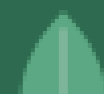
- Finish with a slide that has general recommendations for building a raised flower bed and offer optimistic encouragement.



# Raised Flower Bed

## Project Planning Guide

Wood Selection • Supplier Plans • Build Tips





# Why Cedar?



## Recommended: Western Red Cedar



### Natural Rot Resistance

Cedar's oils repel moisture and decay — no chemical treatment needed. Raised beds last 15–20 years.



### Food-Safe for Gardens

Unlike pressure-treated pine, cedar contains no toxic preservatives, keeping your soil and plants safe.



### Thermal Stability

Cedar resists warping, cracking, and splitting through freeze-thaw cycles — perfect for outdoor use.



### Beautiful Natural Look

Rich reddish-brown tone weathers gracefully to an elegant silver-gray that complements any garden.



# Materials Required — Cedar (8 ft each)



**1x8 Boards**

**Qty: 4**

Side panels / fascia



**2x4 Studs**

**Qty: 25**

Frame, supports & cross-bracing



**4x4 Posts**

**Qty: 8**

Corner & mid-span posts



# Plan 1: Fastest Lead Time

All from Southern Cedar Mills — fastest delivery on every part, though 2x4 prices have risen.

| Part      | Supplier             | Qty | Unit Price | Line Total | Lead (days) |
|-----------|----------------------|-----|------------|------------|-------------|
| 1x8 (8ft) | Southern Cedar Mills | 4   | \$12.50    | \$50.00    | 4           |
| 2x4 (8ft) | Southern Cedar Mills | 25  | \$10.50    | \$262.50   | 3           |
| 4x4 (8ft) | Southern Cedar Mills | 8   | \$14.90    | \$119.20   | 3           |

**\$431.70**

Total Cost

**4 days**

Max Lead Time

**1**

# of Suppliers

 Fastest Delivery





# Plan 2: Fewest Suppliers

*One vendor, one call, one delivery — Mountain Wood Supply offers a low cost across all parts.*

| Part      | Supplier             | Qty | Unit Price | Line Total | Lead (days) |
|-----------|----------------------|-----|------------|------------|-------------|
| 1x8 (8ft) | Mountain Wood Supply | 4   | \$12.50    | \$50.00    | 5           |
| 2x4 (8ft) | Mountain Wood Supply | 25  | \$8.75     | \$218.75   | 5           |
| 4x4 (8ft) | Mountain Wood Supply | 8   | \$15.00    | \$120.00   | 5           |

**\$388.75**

Total Cost

**5 days**

Max Lead Time

**1**

# of Suppliers



1 Supplier Only





# Plan 3: Lowest Total Cost

*Pacific Lumber Co.'s dramatic 2x4 price drop makes mix-and-match the clear winner on cost.*

| Part      | Supplier             | Qty | Unit Price | Line Total | Lead (days) |
|-----------|----------------------|-----|------------|------------|-------------|
| 1x8 (8ft) | Great Lakes Lumber   | 4   | \$12.25    | \$49.00    | 6           |
| 2x4 (8ft) | Pacific Lumber Co.   | 25  | \$6.65     | \$166.25   | 5           |
| 4x4 (8ft) | Southern Cedar Mills | 8   | \$14.90    | \$119.20   | 3           |

**\$334.45**

Total Cost

**6 days**

Max Lead Time

**3**

# of Suppliers



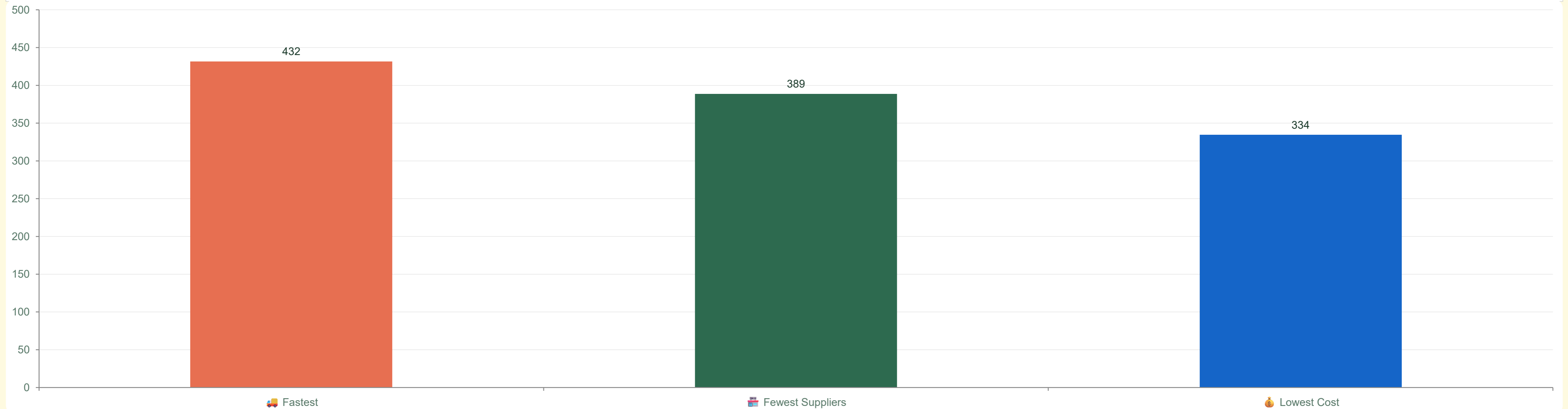
Best Value





# Plan Comparison at a Glance

| Plan                    | Total Cost      | Max Lead (days) | # Suppliers | Best For                           |
|-------------------------|-----------------|-----------------|-------------|------------------------------------|
| <b>Plan 1: Fastest</b>  | <b>\$431.70</b> | 4               | 1           | Fastest delivery (3–4 days)        |
| <b>Plan 2: Fewest</b>   | <b>\$388.75</b> | 5               | 1           | Simplest ordering (5 days)         |
| <b>Plan 3: Cheapest</b> | <b>\$334.45</b> | 6               | 3           | Maximum cost savings (3 suppliers) |





# Build Tips & Encouragement



## Pre-drill your holes

Cedar can split. Pre-drill pilot holes near board ends before screwing in lag bolts or deck screws — your joints will be strong and clean.



## Line with landscape fabric

Add a layer of weed-barrier fabric inside the bed before filling with soil. It suppresses weeds while still allowing drainage.



## Pick the right location

Most vegetables and flowers need 6–8 hours of sunlight. Face the long side south, and level your site carefully before you build.



## Use quality soil mix

Fill with a 60/30/10 blend of topsoil, compost, and perlite. Great soil is the biggest predictor of a thriving garden.



**You've got this! 🌱 Every great garden starts with a single board. Your flowers are already rooting for you!**

# How about some different skills?

Grafana Dashboard monitors system metrics  
around the clock

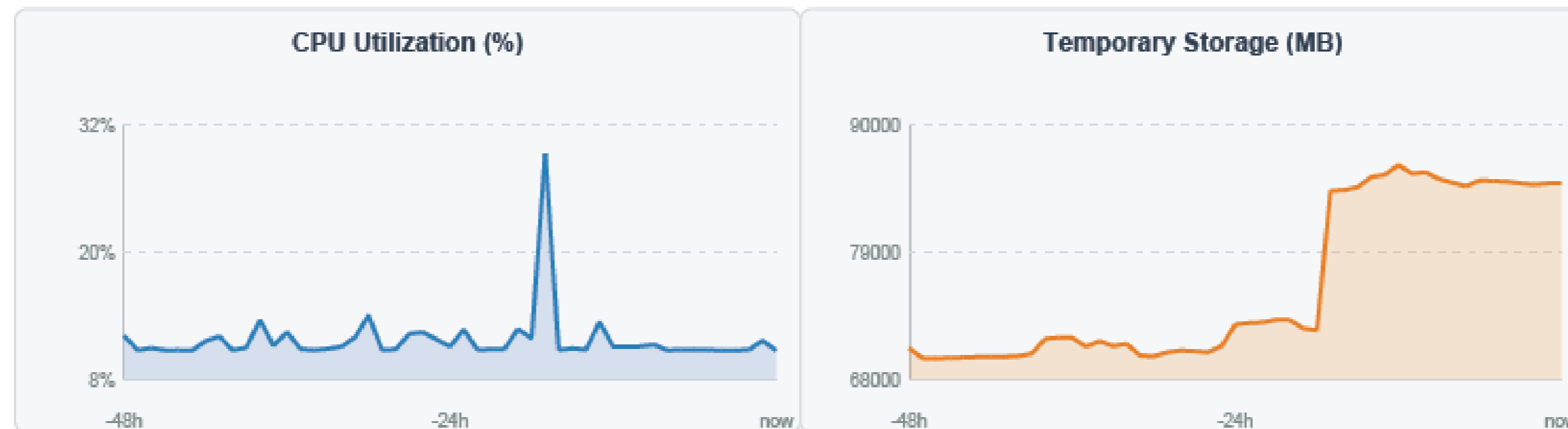
Email me a PDF summary of the  
dashboard

STATUS: 1 ALERT | 2 WARNINGS | CPU, Connections & Batch Normal

## Current Metrics

|                             |                            |                                 |                                   |                                    |                                  |                                 |
|-----------------------------|----------------------------|---------------------------------|-----------------------------------|------------------------------------|----------------------------------|---------------------------------|
| CPU avg<br><b>21.8%</b>     | CPU max (1h)<br><b>32%</b> | Disk used<br><b>77.3%</b>       | Low-space threshold<br><b>95%</b> | Plan cache hit ratio<br><b>87%</b> | Active queries<br><b>945</b>     | Plans in cache<br><b>55,739</b> |
| Total jobs<br><b>15,701</b> | Active jobs<br><b>479</b>  | Remote connections<br><b>66</b> | Batch running<br><b>168</b>       | Batch msg wait<br><b>0</b>         | Temp storage<br><b>84,889 MB</b> | HTTP requests<br><b>294</b>     |

## 48-Hour Trends



## Findings & Recommendations

ALERT

### Disk low-space threshold at 95%

QSTGLOWLMT is configured at 95%, only ~18 percentage points from current usage (77.3%). The system will start refusing new jobs when disk hits this threshold.

WARNING

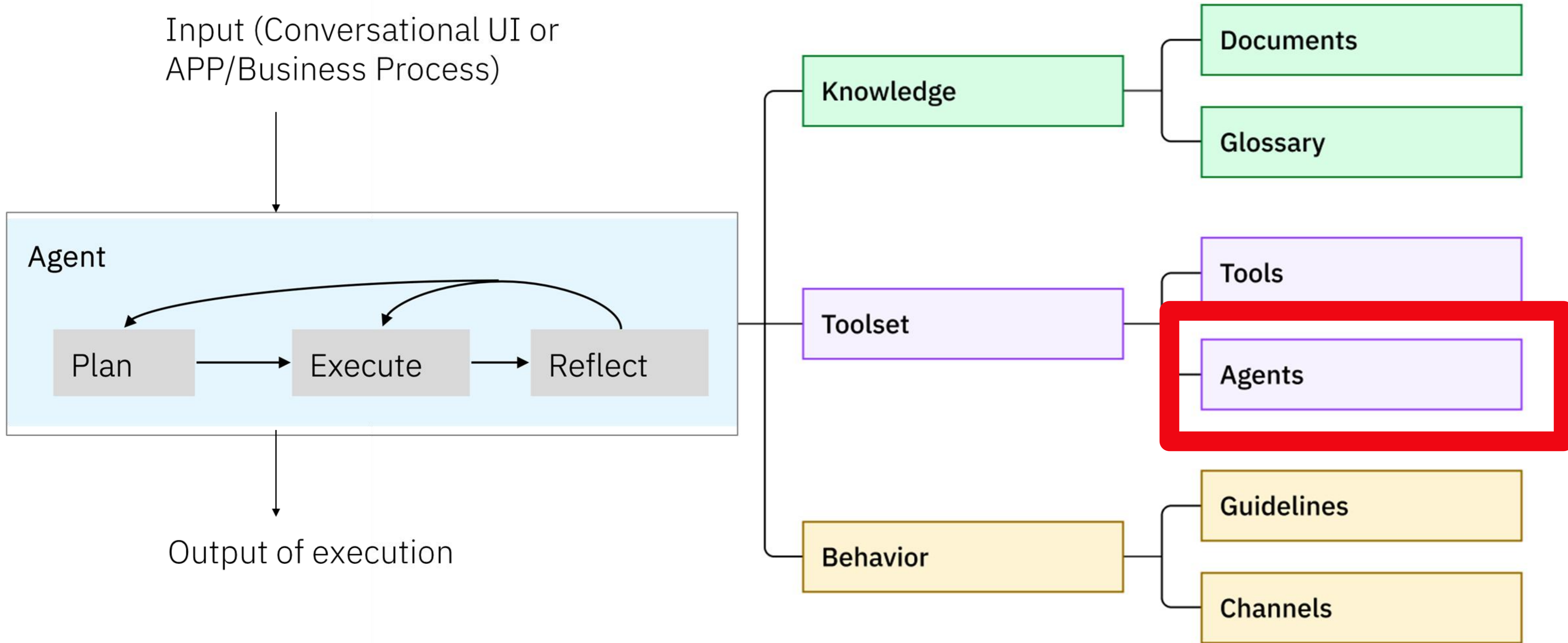
### Disk usage at 77.3%

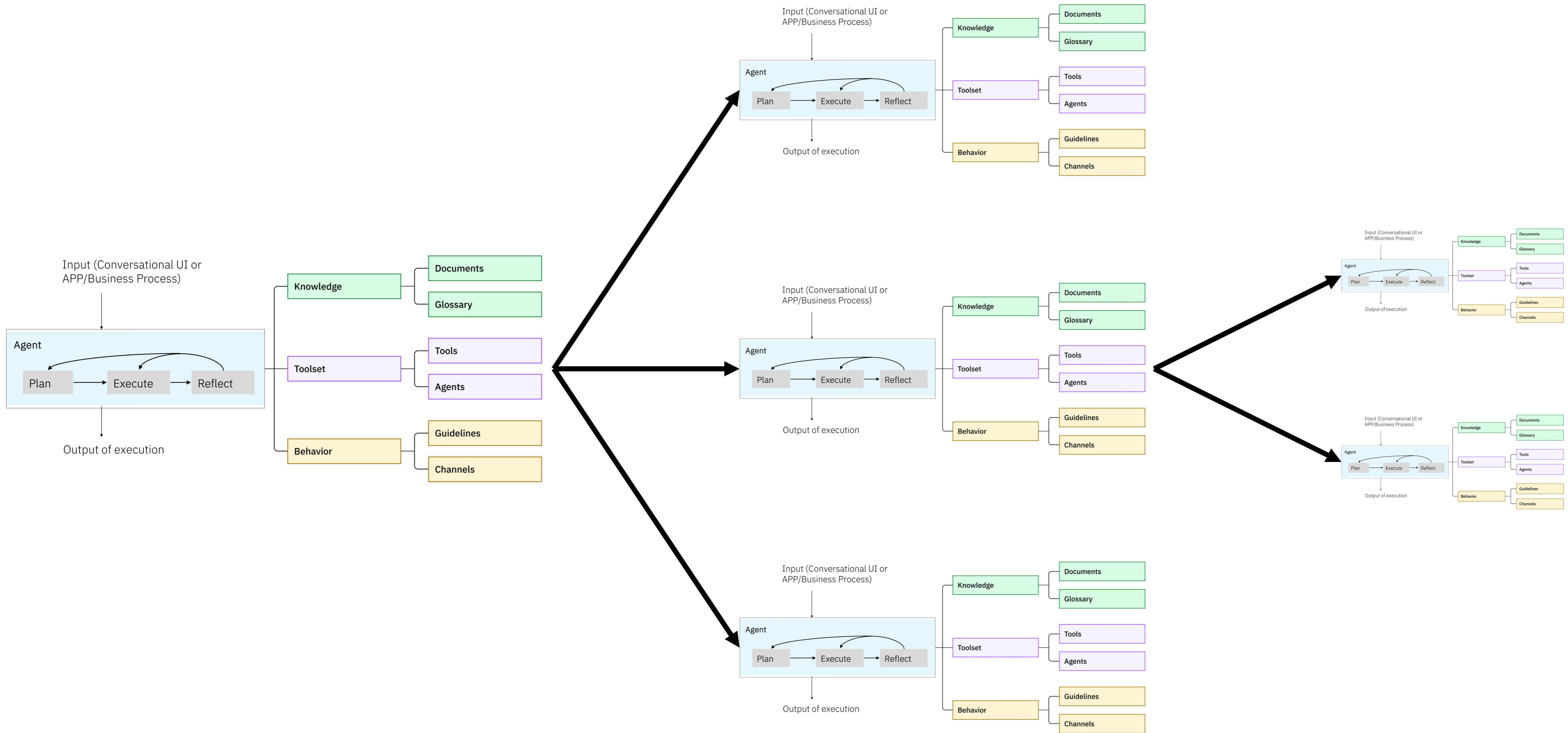
System ASP is 77.3% full and has been gradually rising. Combined with the 95% QSTGLOWLMT threshold, headroom is limited. Recommend cleanup or storage expansion.

WARNING

### Plan cache hit ratio at 87%

Below the healthy 90-95% range for IBM i. With 945 active queries, approximately 1 in 8 SQL queries is missing the cache





# Agent orchestration

## Specialization

Agents are designed with focused skills — one browses the web, another writes code, another reviews output.

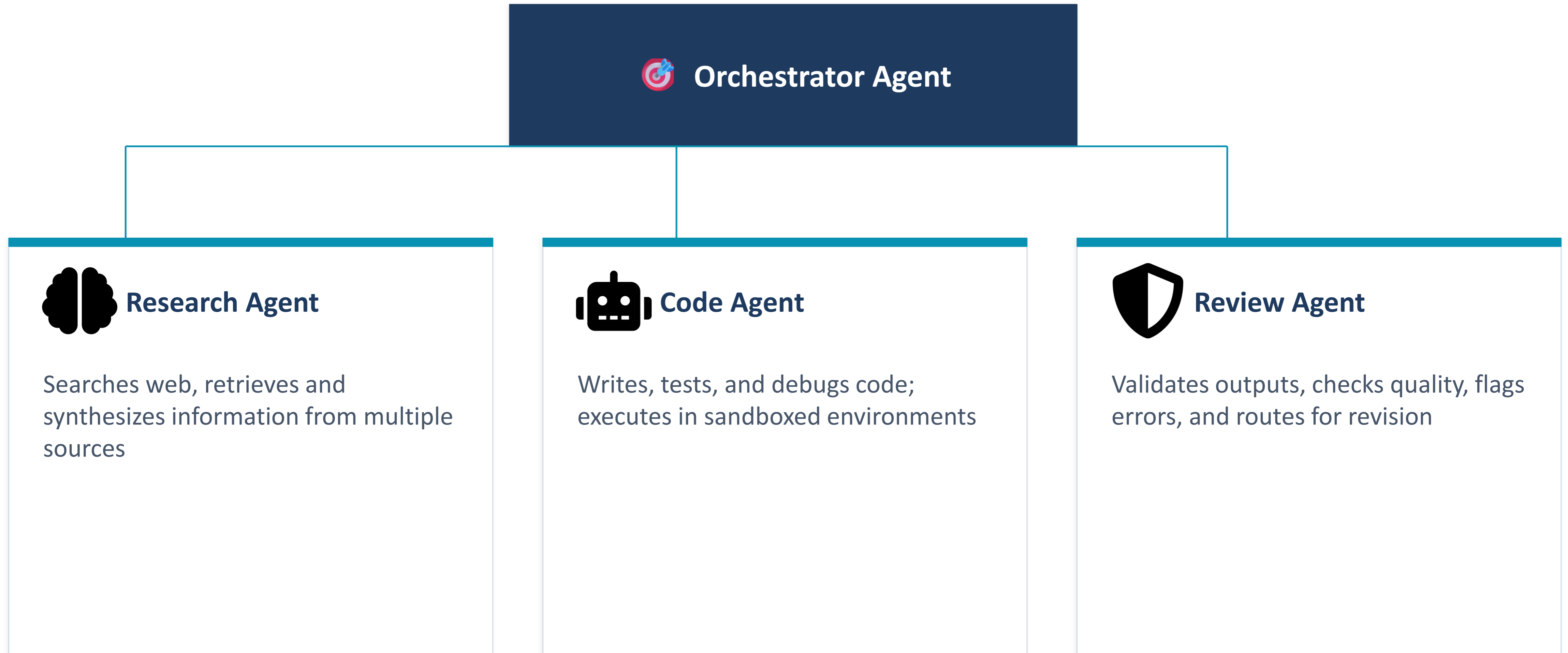
## Coordination

An orchestrator directs agents, passes context, and assembles results into a coherent final output.

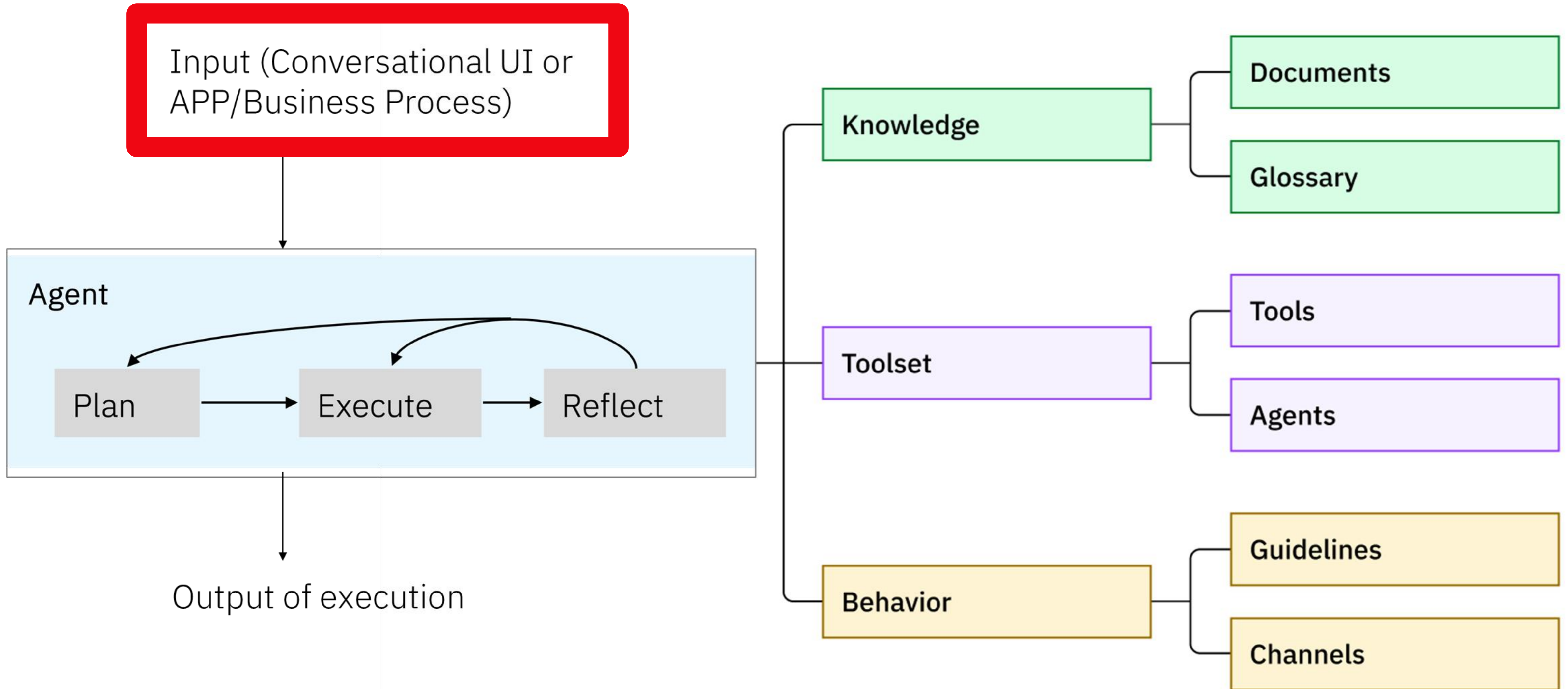
## Autonomy

The system operates with minimal human input, making decisions and adapting to results at runtime.

# Agent teams



# Addressing misconceptions



# Not the Same Thing.

*Chatbots respond. Agentic AI acts.*

## CHATBOT

*Responds to prompts in a conversation*

**Role** Conversational assistant

**Scope** Single turn or short session

**Memory** Limited to the conversation window

**Tools** None — text in, text out

**Loop** Waits for the next human message

## AGENTIC AI

*Pursues goals autonomously over time*

**Role** Autonomous goal-pursuer

**Scope** Multi-step, long-horizon tasks

**Memory** Persistent state across actions

**Tools** Browsers, code, APIs, files...

**Loop** Plan → Execute → Reflect → repeat

≠

 **Analogy**

A chatbot is like a knowledgeable advisor you consult. An agentic AI is like a skilled employee you assign tasks to — and it gets them done.

# Agent Memory

## In-Context Memory

Information held in the active prompt window. Fast but size-limited; gets truncated as conversations grow.

### USE CASE

*Short tasks, single-turn agents*

## External Memory

Vector databases, SQL stores, or key-value stores queried by agents at runtime via retrieval-augmented generation (RAG).

### USE CASE

*Long-running agents, knowledge bases*

## Episodic Memory

Records of past interactions and outcomes. Agents learn from prior sessions and avoid repeating mistakes.

### USE CASE

*Personalization, improving over time*

## Shared State

A common data store all agents in a team can read and write to — enables coordination without direct message passing.

### USE CASE

*Multi-agent teams, parallel workflows*

# Solutions and Successes

# IBM AskHR

An HR digital assistant driving a seamless experience for employees and empowering HR professionals to focus on higher value tasks

10.1M Yearly interactions

765K Automated Tasks

40% Reduction in HR Operating Budget

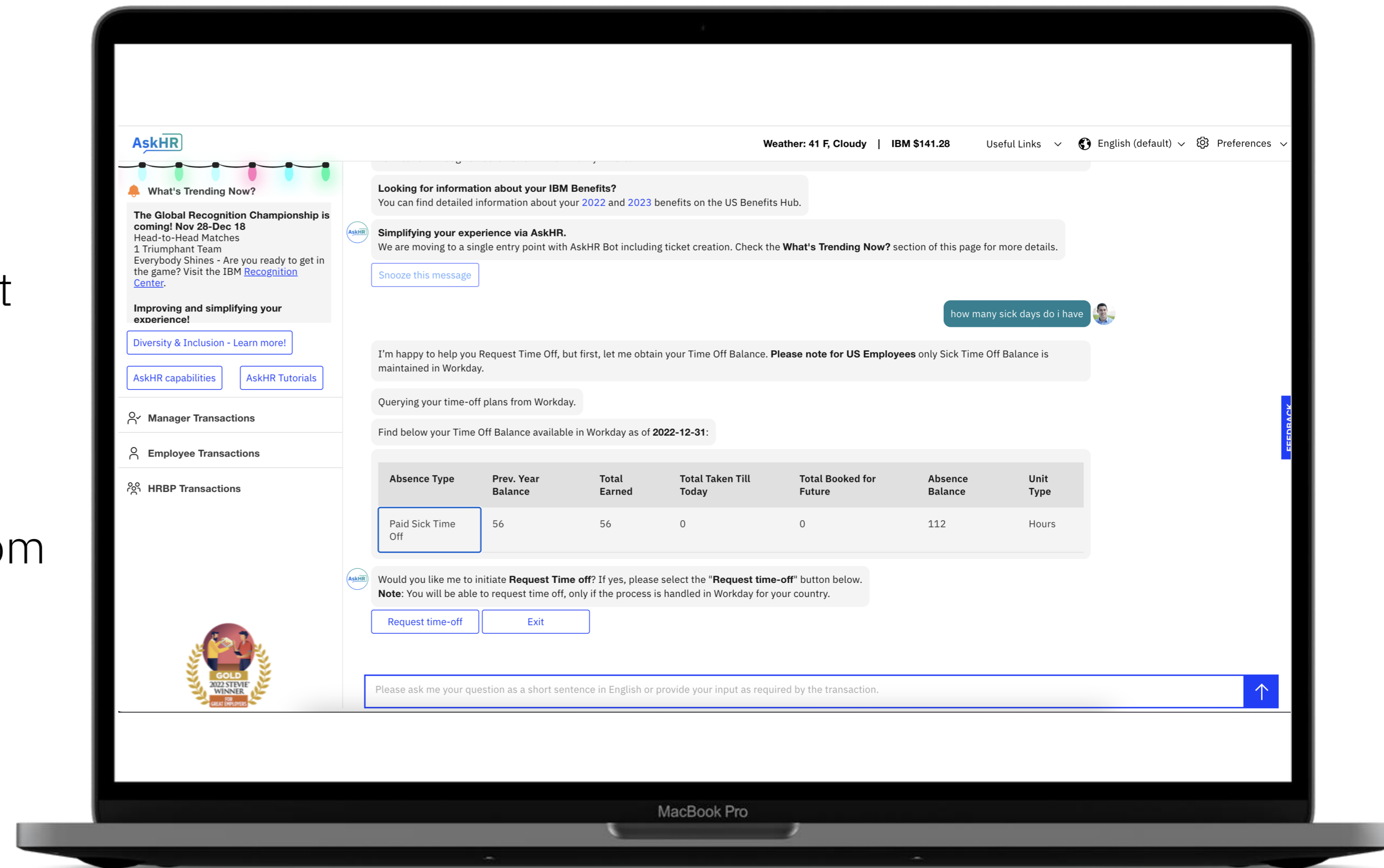
94% Employee inquiries handled by AskHR

+55 Improvement of HR NPS score from +19 → +74

96% Manager adoption

93% Executive adoption

2 Bands Average increase in HR 'level'



# IBM i Agentic – Mission Statement is to enable...

**End Users** to use natural language to

- Get information from company-specific Db2 data
- Improve, monitor and manage system security
- Manage the system

**Application Builders** to use natural language to

- Build, enhance, modernize and maintain solutions faster
- Deploy updates to the applications on the IBM i architecture
- Employ skilled professionals who are not familiar with traditional IBM i languages

**IBM/Red Hat Products & Applications** use a common set of IBM i tools

- AIOps/Hybrid Console
- Project Bob
- OpenShift AI
- watsonx ....

# Universal MCP Server

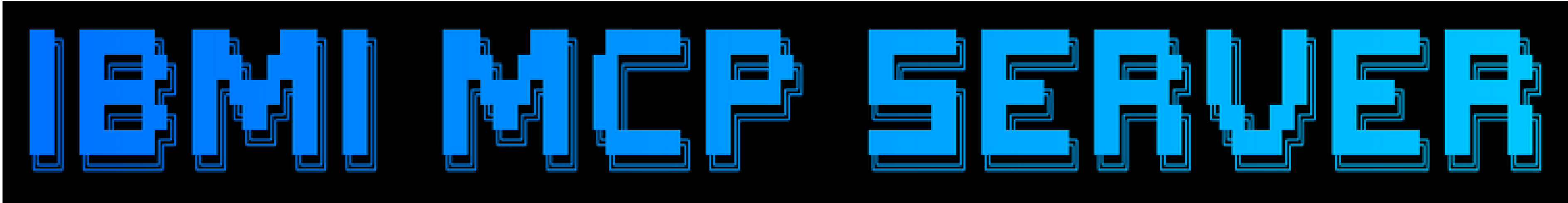
<https://ibm.biz/ibmi-mcp>

 **ibmi-mcp-server** Public

MCP server for IBM i

|            |        |                                                                                                                  |         |          |            |         |       |          |        |         |            |
|------------|--------|------------------------------------------------------------------------------------------------------------------|---------|----------|------------|---------|-------|----------|--------|---------|------------|
| TypeScript | ^5.8.3 | MCP SDK                                                                                                          | ^1.17.1 | MCP Spec | 2025-06-18 | Version | 1.9.1 | Coverage | 64.67% | License | Apache 2.0 |
| Status     | Stable |  <a href="#">Ask DeepWiki</a> |         |          |            |         |       |          |        |         |            |

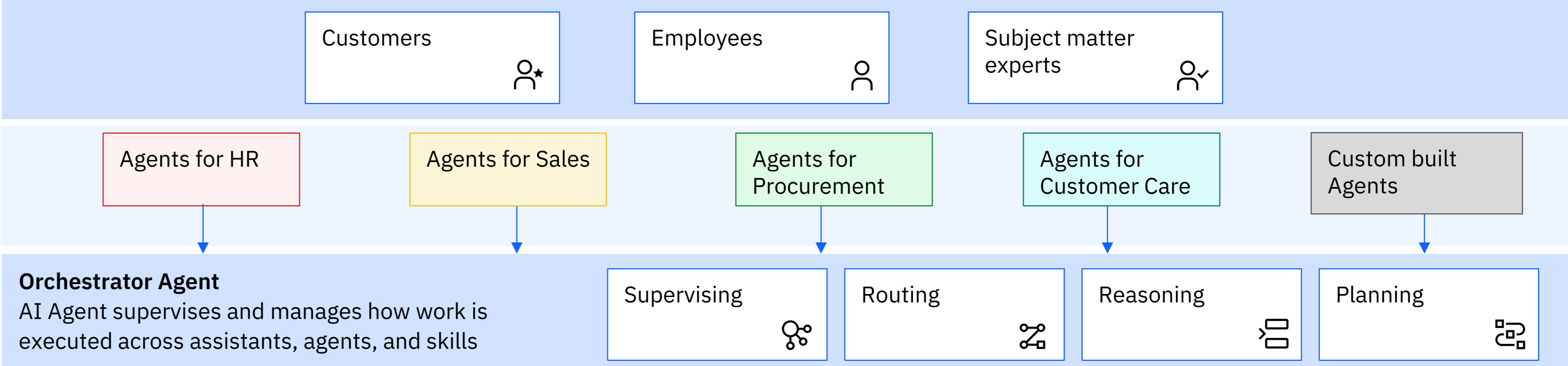
 [Documentation](#) |  Docs are under active development



# IBM watsonx Orchestrate

Empower customers and employees through simple, intuitive and guided conversations

Agent Catalog



Boost productivity with AI and automation

**AI Agents**  
Uses tools and other agents to plan and act, automating complex tasks

**Tools**  
APIs and automations that can be used by agents to accomplish tasks.

Accelerate time to value with pre-built capabilities or build your own

**Studio**  
Discover, create and manage agents and tools that orchestrate tasks and workflows.

Prebuilt tools

Custom tools – build new or discovery existing

Gen AI powered by watsonx.ai™



## From Insight to Autonomy: The Future of Agentic Operations on IBM Power

[Click here to remove from My Schedule.](#)

 Tuesday April 28, 2026 8:00am - 9:00am CDT

 Balcony M-N

[Evaluation Survey](#)

IT operations teams are under constant pressure to manage increasingly complex environments while maintaining the performance, availability, and security that mission-critical workloads demand. For organizations running on IBM Power, the next evolution of operations is emerging through agentic and AI-assisted capabilities that move beyond simple automation toward intelligent operations. In this session, we will explore how insights from telemetry, observability, and operational data are laying the

# Agentic AI: Let's Design the Future

📅 Wednesday April 29, 2026 9:15am - 10:15am CDT

📍 Balcony M-N

The IBM i team wants to try something with the participants of POWERUp. We have a chance, at this conference, to collaborate with you on the kinds of things you'd like to see IBM i accomplish with AI in the future. Come to this session to participate as we use collaboration and design concepts to dream about what IBM i might do in the future.

### Speakers



**Steve Will**  
IBM i CTO & Chief Architect, IBM



**Kris Whitney**  
IBM

Kris Whitney is a Senior Technical Staff Member at IBM Rochester. He has worked at IBM for the last 25 years and currently is leading the development for Db2 Mirror for i and IBM i Public Cloud enablement.



**Adam Shedivy**  
Software Developer, IBM

Wanna be an early advisor?  
[Erin.Kingsley@ibm.com](mailto:Erin.Kingsley@ibm.com)

# No-code agent building experience

Create me an agent that monitors my department salaries using data from the SAMPLE library. Create 3-5 custom tools for me

## Tool 1: `get_department_salary_summary`

**Description:** Returns a salary overview for every department — headcount, min, max, avg, and total salary. Use this for a high-level cross-department comparison.

| Parameter     | Type | Required | Default |
|---------------|------|----------|---------|
| <i>(none)</i> | —    | —        | —       |

SQL



```
SELECT
  D.DEPTNO,
  D.DEPTNAME,
  COUNT(E.EMPNO)      AS HEADCOUNT,
  MIN(E.SALARY)       AS MIN_SALARY,
  MAX(E.SALARY)       AS MAX_SALARY,
  AVG(E.SALARY)       AS AVG_SALARY,
  SUM(E.SALARY)       AS TOTAL_SALARY
FROM SAMPLE.DEPARTMENT D
LEFT JOIN SAMPLE.EMPLOYEE E ON E.WORKDEPT = D.DEPTNO
GROUP BY D.DEPTNO, D.DEPTNAME
ORDER BY TOTAL_SALARY DESC
```

### Tool 3: `get_salary_by_job_in_department`

**Description:** Breaks down salary statistics (min, max, avg) by job role within a given department. Use this to compare pay across roles inside a department.

| Parameter             | Type   | Required                                | Default |
|-----------------------|--------|-----------------------------------------|---------|
| <code>:dept_no</code> | string | <input checked="" type="checkbox"/> Yes | —       |

SQL



```
SELECT
  E.JOB, D.DEPTNO, D.DEPTNAME,
  COUNT(E.EMPNO) AS HEADCOUNT,
  MIN(E.SALARY) AS MIN_SALARY,
  MAX(E.SALARY) AS MAX_SALARY,
  AVG(E.SALARY) AS AVG_SALARY
FROM SAMPLE.EMPLOYEE E
JOIN SAMPLE.DEPARTMENT D ON D.DEPTNO = E.WORKDEPT
WHERE E.WORKDEPT = :dept_no
GROUP BY E.JOB, D.DEPTNO, D.DEPTNAME
ORDER BY AVG_SALARY DESC
```

## Named Tools (Specialized for Salary Analysis)

1. **get\_department\_salary\_summary** — Provides a broad overview of salaries across all departments, including headcount, min/max/avg/total salary per department.
2. **get\_employees\_by\_department** — Drills into a specific department by code (e.g., 'A00', 'D11'). Returns each employee's salary, bonus, commission, and total compensation.
3. **get\_salary\_by\_job\_in\_department** — Compares pay across job roles within a single department. Requires a department code.
4. **get\_high\_earners\_above\_dept\_avg** — Identifies salary outliers — employees earning above their department average by a configurable percentage threshold (default 20%). Useful for equity reviews and anomaly detection.
5. **get\_department\_total\_compensation** — Provides budget-level analysis with full compensation cost per department (salary + bonus + commission) and average total comp per head.

- Department Code: D11
- Department Name: Manufacturing Systems
- Total Headcount: 11 employees
- Total Annual Salary Budget: \$276,620
- Total Compensation (with Bonus + Commission): \$304,246
- Average Total Comp per Employee: \$27,658.72

## JOB ROLE BREAKDOWN

| Job Role | Headcount | Avg Salary | Min Salary | Max Salary | Total Salary |
|----------|-----------|------------|------------|------------|--------------|
| Manager  | 1         | \$32,250   | \$32,250   | \$32,250   | \$32,250     |
| Designer | 10        | \$24,437   | \$18,270   | \$29,840   | \$244,370    |

## EMPLOYEE-LEVEL COMPENSATION (Sorted by Salary)

| Emp ID | Name          | Job      | Salary   | Bonus | Commission | Total Comp |
|--------|---------------|----------|----------|-------|------------|------------|
| 000060 | IRVING STERN  | Manager  | \$32,250 | \$500 | \$2,580    | \$35,330   |
| 000220 | JENNIFER LUTZ | Designer | \$29,840 | \$600 | \$2,387    | \$32,827   |
| 200220 | REBA JOHN     | Designer | \$29,840 | \$600 | \$2,387    | \$32,827   |

# AI Agents for IBM i Private Preview Waitlist

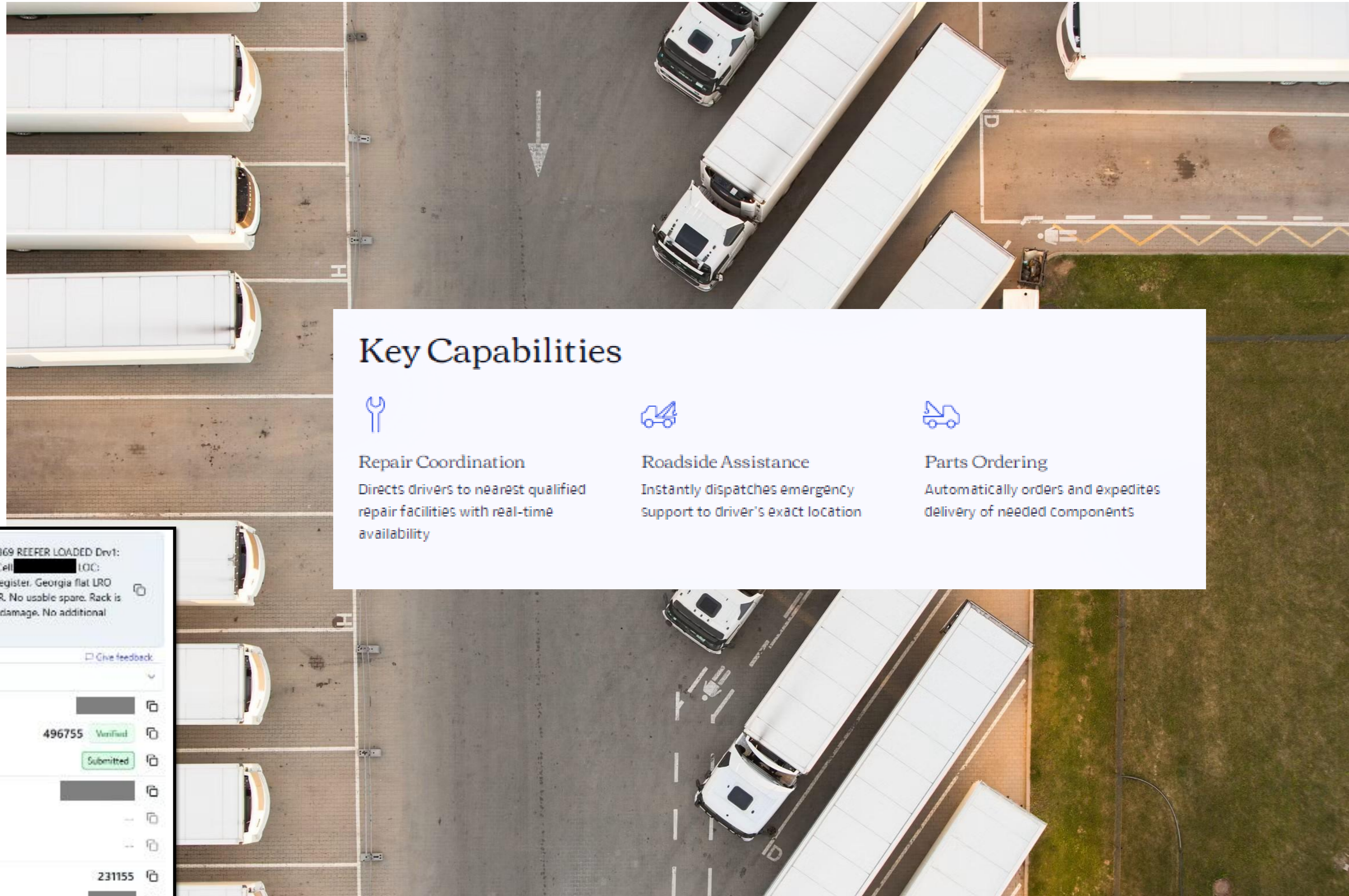


[ibm.biz/ibmi-agents](https://ibm.biz/ibmi-agents)




Real-life example:  
**Revolutionize driver support with Agentic AI**

A large trucking company, whose core business runs on IBM i, creates an agentic voice-driven support assistant to...

- fully automate many support tasks, such as coordinating repairs, providing roadside assistance, and ordering parts.
- increase driver satisfaction with 24/7 availability and zero wait time.
- improve fleet efficiency and bottom-line performance by resolving issues 60% faster.












### Key Capabilities

|                                                                                                                                                                                                         |                                                                                                                                                                                        |                                                                                                                                                                                  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <br><b>Repair Coordination</b><br>Directs drivers to nearest qualified repair facilities with real-time availability | <br><b>Roadside Assistance</b><br>Instantly dispatches emergency support to driver's exact location | <br><b>Parts Ordering</b><br>Automatically orders and expedites delivery of needed components |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Trac: 231155 Trlr: R22369 REEFER LOADED Devt: 496755 "LAMONTA" Cell: [REDACTED] LOC: 2930 US 301 North, Register, Georgia flat LRO 295/75R22.5 TRACTOR, No usable spare. Rack is empty. No additional damage. No additional notes.

[Give feedback](#)

**Dash Summary**

|                 |                                                    |                                                                                       |
|-----------------|----------------------------------------------------|---------------------------------------------------------------------------------------|
| Driver          | [REDACTED]                                         |  |
| # Driver Code   | 496755 <span>Verified</span>                       |  |
| Macro 55        | <span>Submitted</span>                             |  |
| Callback number | [REDACTED]                                         |  |
| Manager         | --                                                 |  |
| Service Center  | --                                                 |  |
| Truck           | 231155                                             |  |
| Trailer         | [REDACTED]                                         |  |
| Location        | 32.3033371, -81.8694763<br>3:33PM MST (2 days ago) |  |

32°18'12.0"N 81°52'10.1"W  
[View larger map](#)

Aspen America

# AI on IBM i resources page

<http://ibm.biz/ai-ibmi>

A comprehensive guide to using AI with IBM i

Search  Ctrl K

Auto

- Home
- AI software stacks [start here](#)
- Accessing Db2 from AI
- Streaming Db2 transactions
- Streaming operational data
- Calling AI from IBM i
- Agentic AI
- Code assistance
- Other Useful links (external)

## AI with IBM i

Welcome to the guide for using AI with IBM i!

This documentation can serve as a starting point for your journey of using AI with IBM i.

**Note:** This is a work in progress and will be receiving more updates in the near future!!

Next →  
[Choosing an AI stack](#)

On this page  
[Overview](#)



# Thank you

# For more information

## IBM Sites:

|                          |                                                                                                                                                                                       |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| IBM i Home Page          | <a href="https://www.ibm.com/it-infrastructure/power/os/ibm-i">https://www.ibm.com/it-infrastructure/power/os/ibm-i</a>                                                               |
| IBM Strategy Whitepaper  | <a href="https://www.ibm.com/it-infrastructure/us-en/resources/power/i-strategy-roadmap/">https://www.ibm.com/it-infrastructure/us-en/resources/power/i-strategy-roadmap/</a>         |
| IBM Client Success       | <a href="https://www.ibm.com/it-infrastructure/us-en/resources/power/ibm-i-customer-stories/">https://www.ibm.com/it-infrastructure/us-en/resources/power/ibm-i-customer-stories/</a> |
| Support Life Cycle       | <a href="https://www.ibm.com/support/lifecycle/">https://www.ibm.com/support/lifecycle/</a>                                                                                           |
| License Topics           | <a href="https://www-01.ibm.com/support/docview.wss?uid=nas8N1022087">https://www-01.ibm.com/support/docview.wss?uid=nas8N1022087</a>                                                 |
| IBM i Release Life Cycle | <a href="https://www.ibm.com/support/pages/release-life-cycle">https://www.ibm.com/support/pages/release-life-cycle</a>                                                               |
| IBM i TR Wikis           | <a href="#">IBM i Technology Updates</a>                                                                                                                                              |

For more information:

## Blogs to follow

- [TechChannel You and i \(Steve Will\)](#)
- [TechChannel: i Can \(Dawn May\)](#)
- [TechChannel: OpenYour i with Jesse Gorzinski](#)
- [IBM Db2 for i \(Kent Milligan\)](#)
- [IBM i Analytics Blog \(Jon Westcott Jr\)](#)
- [iSee with Scott and Tim](#)

## More to follow

[@IBMservers](#)  
[@COMMONug](#)  
[@IBMChampions](#)  
[@IBMSystemsISVs](#)  
[@LinuxIBMMag](#)  
[@OpenPOWERorg](#)  
[@ITJungleNews](#)  
[@SAPonIBMi](#)  
[@SiDforIBMi](#)  
[@IBMAIXeSupp](#)  
[@IBMAIXdoc](#)

## Hashtags to Use

#IBMPower  
#IBMi  
#IBMAIX  
#Power10  
#LinuxonPower  
#HANAonPower  
#ITinfrastructure  
#OpenSource  
#HybridCloud

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