
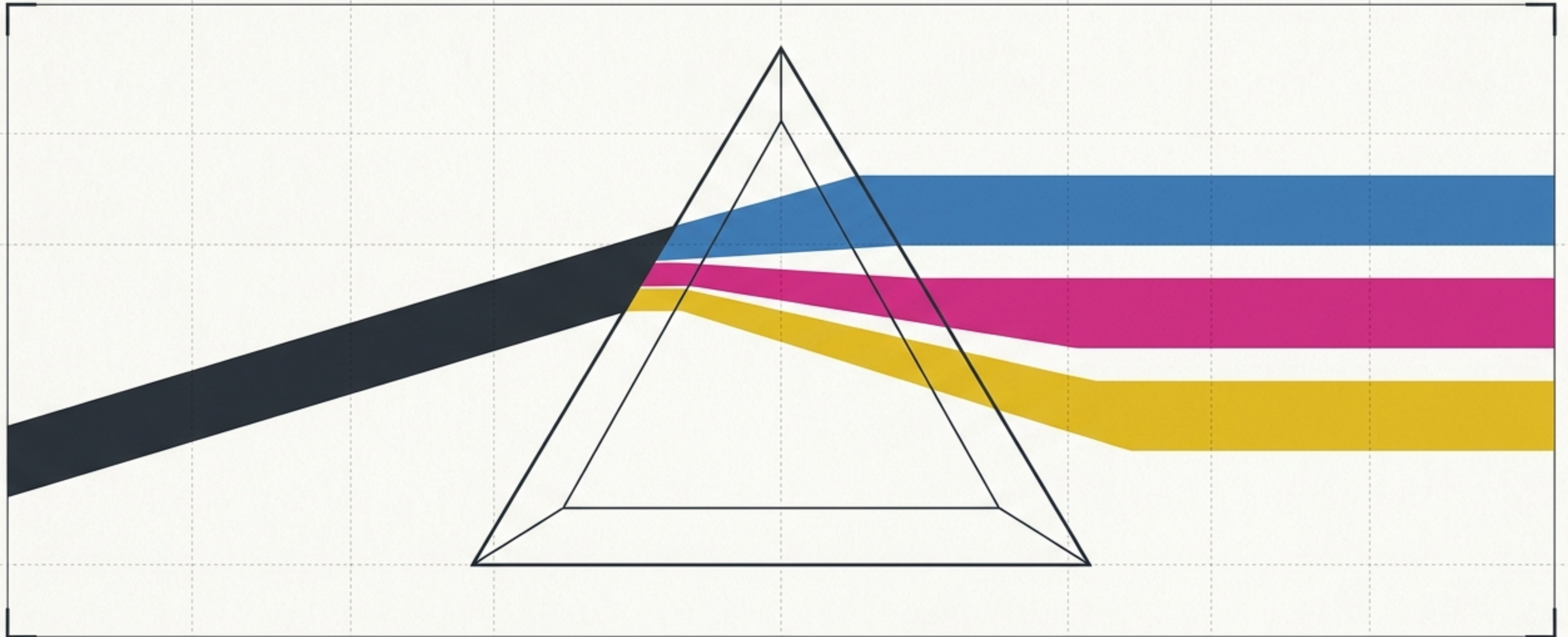


Giving the Radar a Second Face

Building the architecture of non-human access

INIT_SEQUENCE 




Human View (news.ax0x.ai)

Agent View

DAILY RADAR: Key Developments




Breakthrough in Quantum Networking
Impact on Global Infrastructure

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Global Market Shifts

- **Energy Sector Trends**
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- **Policy Updates**
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Curated Feeds

- Tech Policy Brief
- Innovation Spotlight
- Policy Innovation
- Policy Policy

Editor Picks

- Tech Policy Brief
- Innovation Spotlight
- Policy Innovation

> Claude, what's on the radar worth reading today?

> I'm sorry, I don't have access to that. Can you provide a screenshot?

> █

As far as any LLM was concerned, the radar didn't exist. It had only one face.

SHIP_STATS (Per 30-Day Serving)

Items Enriched: 6,821 (100% Postgres real data)

Sources: 59

LLM Calls: 68,000+

Inference Cost: \$443.00

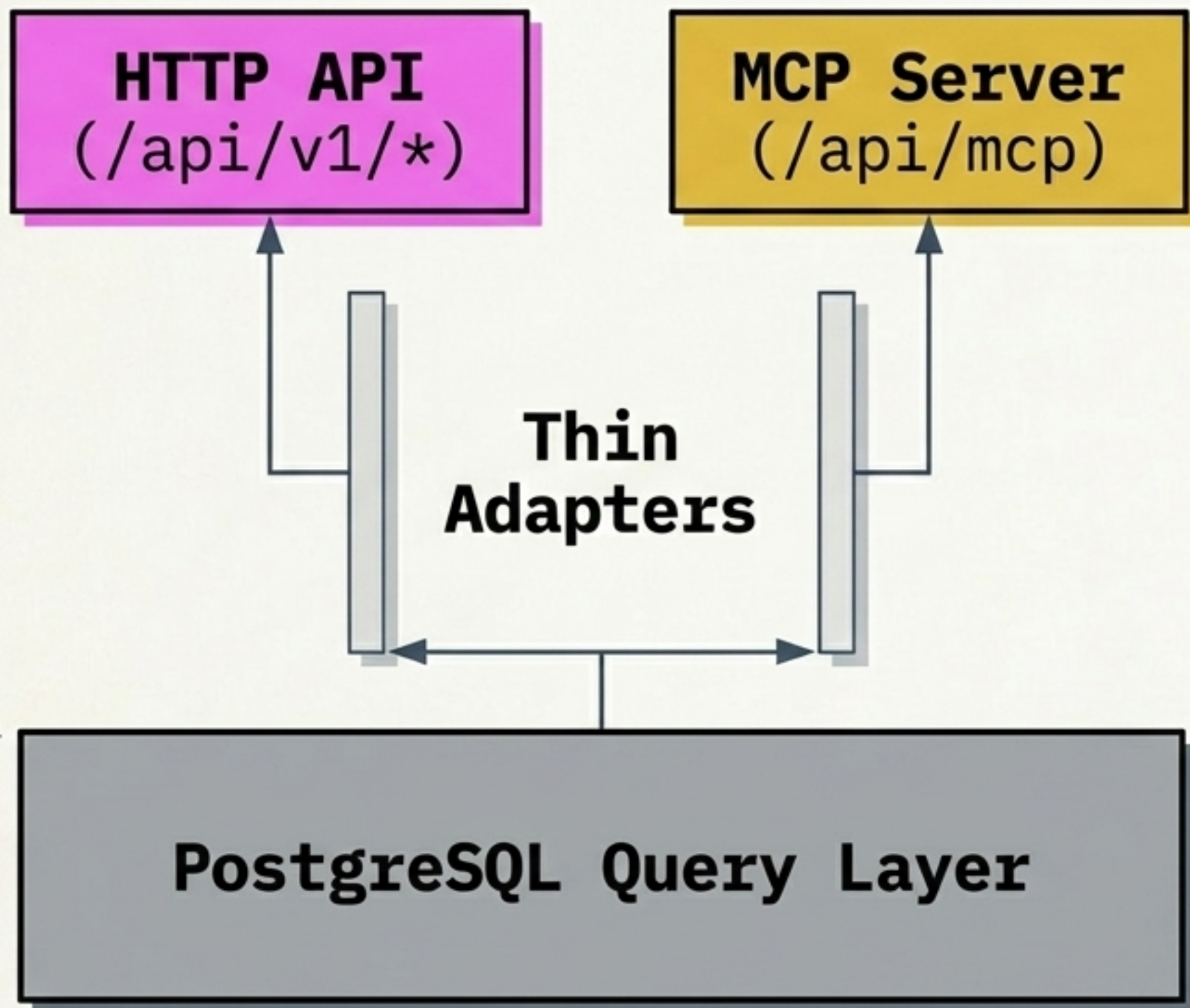
Lines of Code (LOC)	~1,600
Commits	2
Files Touched	20
Integration Tests	14

(Note: hitting real Postgres, synthetic Request objects, zero mocks)

Output Interfaces:

8 REST Endpoints, 7 MCP Tools, 1 Resource.

Two Shims, One Core Backend



We don't build two backends. We build thin shims. Change a scoring policy or add a field in the SQL query layer, and both interfaces see it instantly.

No v2 vs v3 version drift.

The Two Faces Matrix

Dimension	HTTP API	MCP Server
Role	The Fallback	The Fast Lane
Primary Consumers	n8n, LangChain, Custom Runtimes	Claude Desktop, Cursor, Claude CLI
Integration Cost	High (Requires hand-writing a custom function wrapper)	Zero (Auto-discovery, no SDK, no glue code)
Setup Experience	Manual routing & middleware	Drop one JSON block into <code>claude_desktop_config.json</code>
Universality	100% (Everything speaks REST)	Emerging (Early adoption phase)

Ship only HTTP, and Cursor users write glue code. Ship only MCP, and n8n users are locked out. Shipping both covers the entire adoption curve.

The False Reflex: Why Tokens Aren't Passwords

```
bcrypt.hash("password123")
```

30-40 bits
of entropy

```
crypto.randomBytes(32)
```

256 bits of
pure entropy

- Auth uses Bearer tokens. The database stores only the hash, never the plaintext.
- The industry reflex for storing a hash is bcrypt. Here, that reflex is completely wrong.
- You cannot brute-force 256 bits of entropy. The heat death of the universe will happen first.

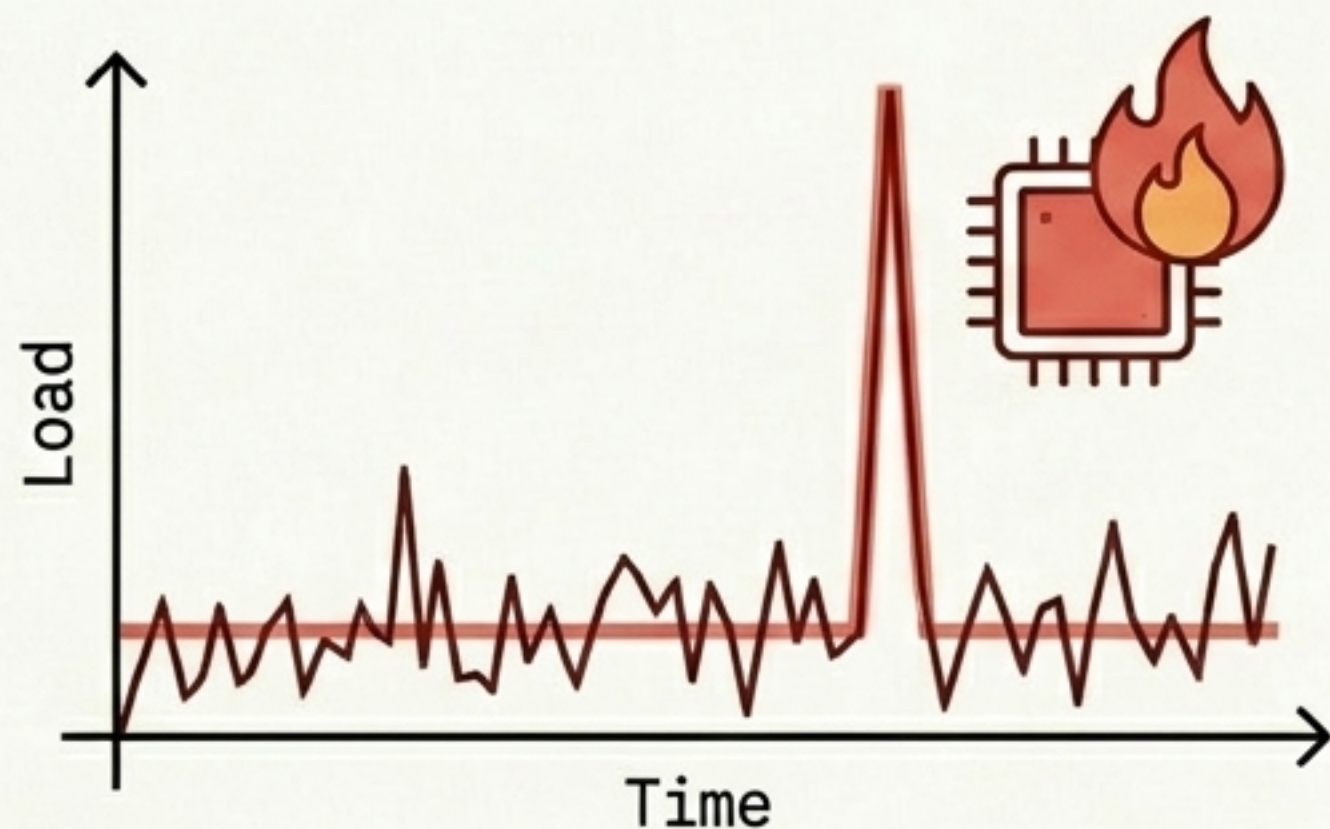
The Auth Engine Match-up

Dimension	Bcrypt	SHA256
Target Use Case	User Passwords	API Bearer Tokens
Entropy Level	30-40 bits	256 bits
Lookup Big-O	Full-table scan (Row-by-row compute)	$O(\log n)$ (B-tree index hop)
Vulnerability	Offline brute-force against stolen dumps	Database melting under QPS spikes

sha256 is correct for high-entropy tokens the same way bcrypt is correct for low-entropy passwords. They solve different problems.

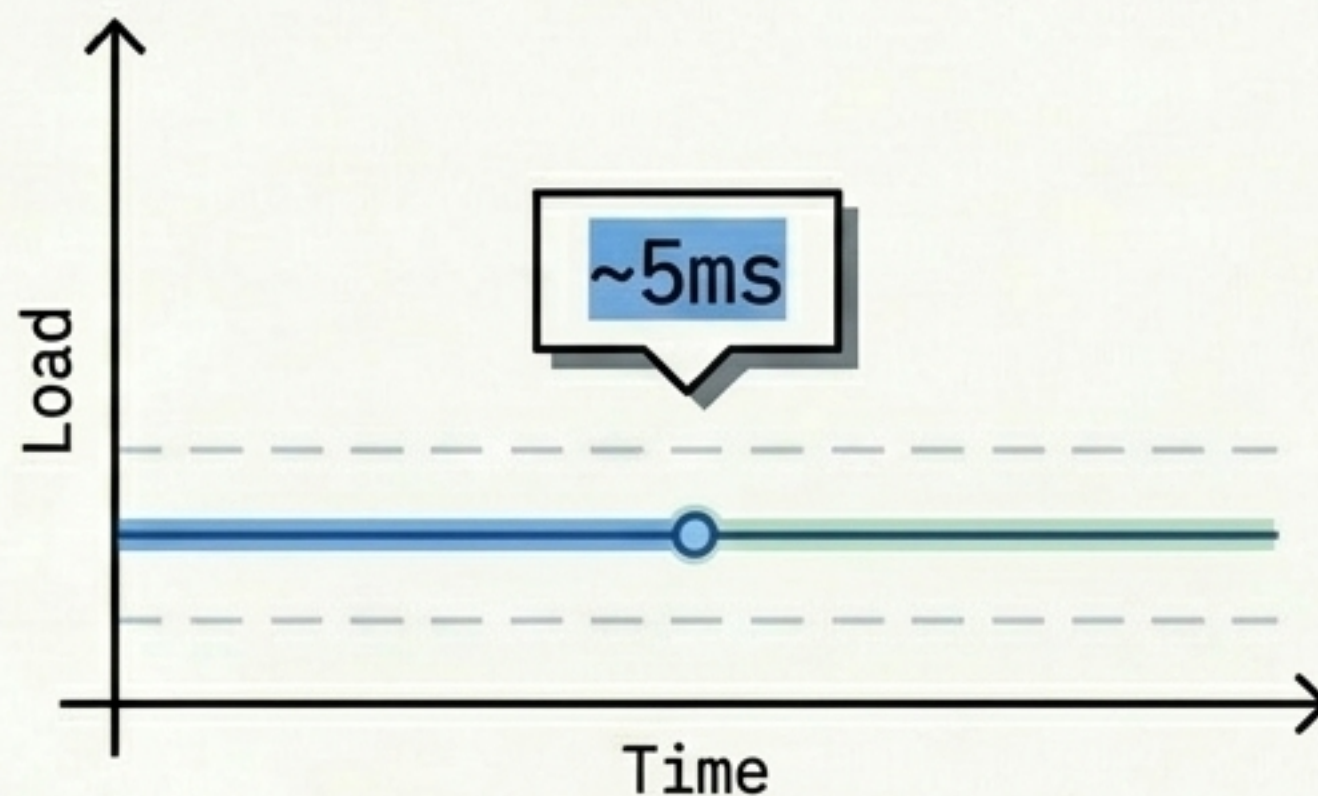
Visualizing the QPS Spike

Bcrypt



Full table scan.
Row-by-row CPU comparison.
Table melts.

SHA256



```
SELECT * FROM api_tokens  
WHERE token_hash = $1
```

btree hop

The Search Architecture That Wasn't Built

Expected Requirements

~~Spin up Pinecone~~

~~Deploy new Vector DB~~

~~Tune HNSW parameters~~

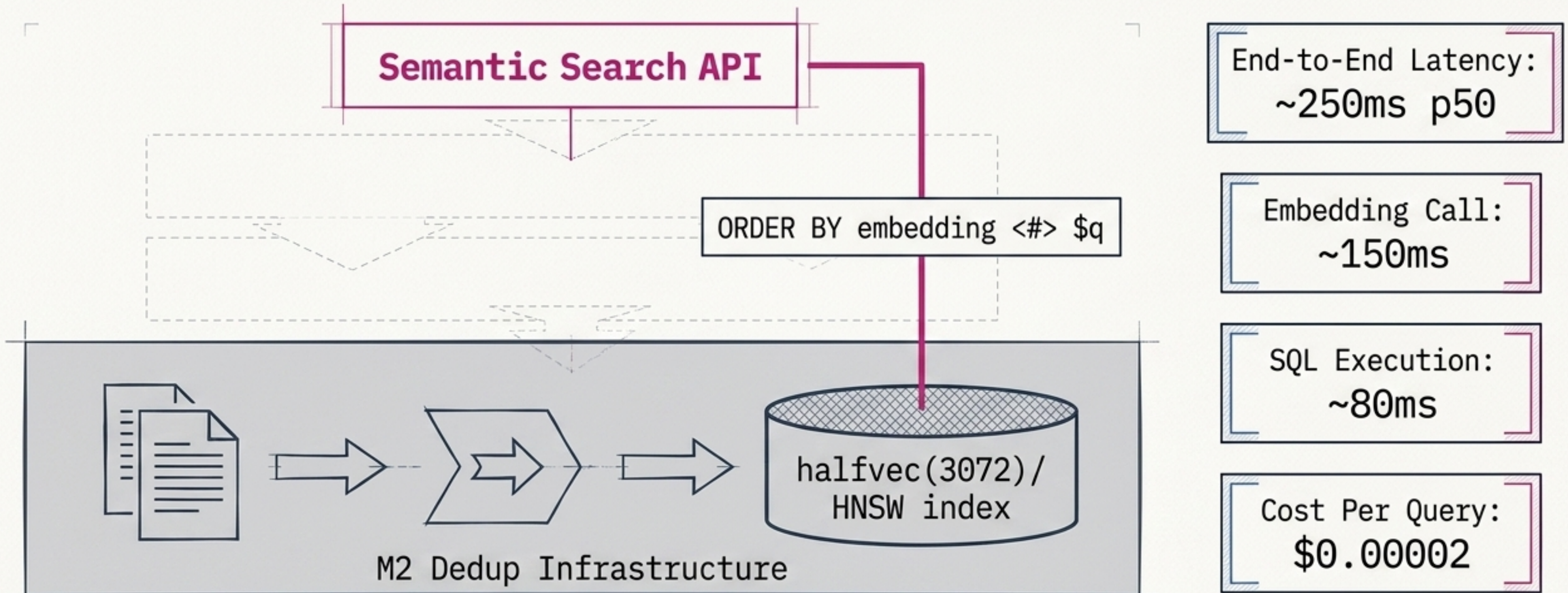
~~Write data-sync pipelines~~

The M2 milestone had already shipped text-embedding-3-large vectors stored in halfvec(3072) with an HNSW index.

Its original purpose?
Cross-source dedup clustering (merging "same event, five outlets" into one row).

The infrastructure was already there. We just needed to ride it.

24 Lines of SQL for Semantic Search



If infrastructure shipped early is designed generically, major features later cost exactly 24 lines of SQL. Negative inner product ranks identically to cosine distance, skipping renormalization entirely.

MCP is the Pipe. The Skill is the Manual.

```
name: ax_radar_feed  
params: { tier, limit }  
return: json
```

Is a **score** of **72** high?

What does **HKR** mean?

Lexical or
Semantic search?

Which sources
have **commentary**?

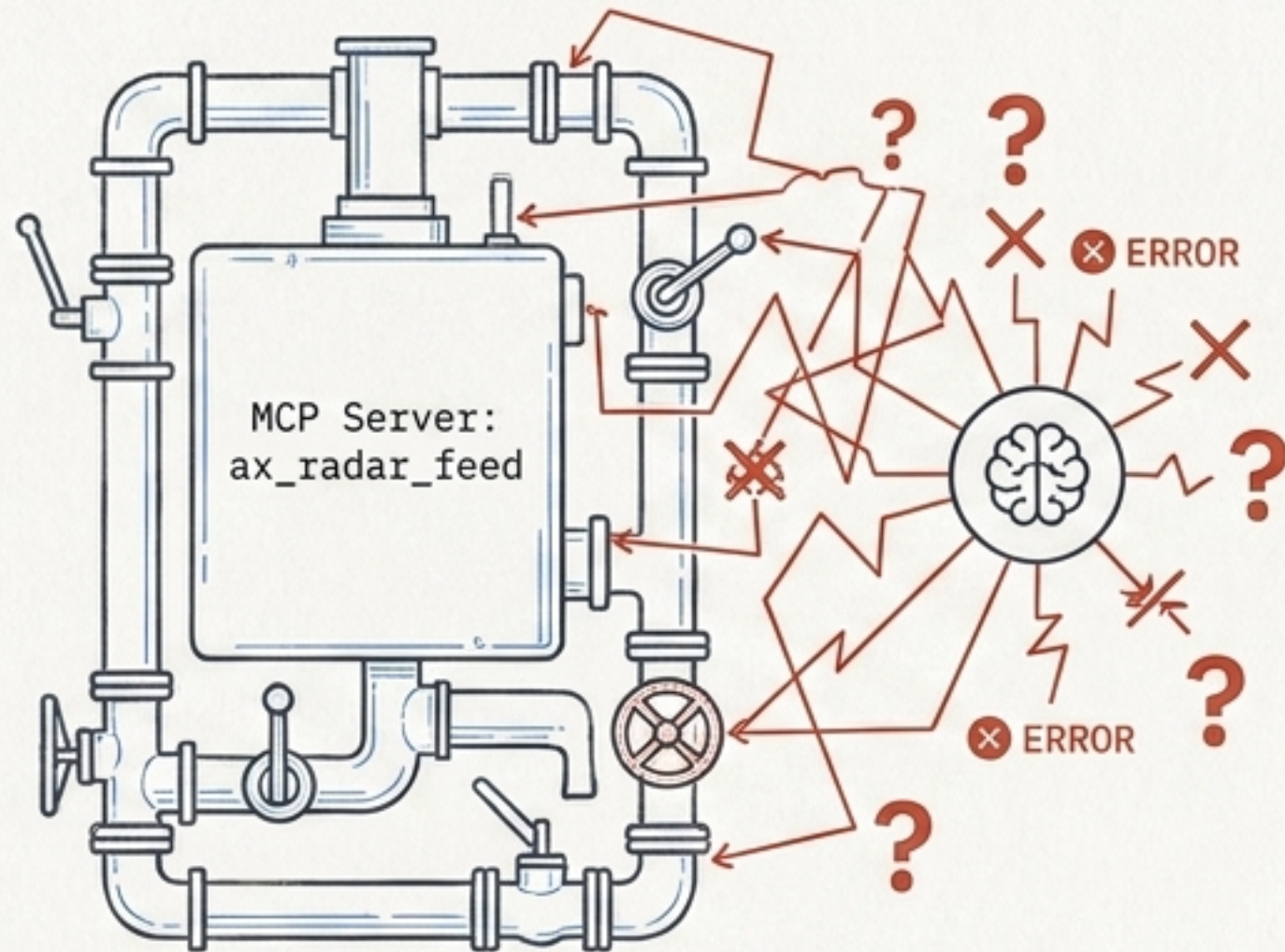
MCP exports tool signatures. It does *not* export semantics. Without domain knowledge, an agent knows the tools exist, but has no idea when to use them.

Protocol vs. Domain Knowledge

Dimension	MCP (The Protocol)	Claude Code Skill (The Semantic Layer)
Metaphor	The Pipe	The Operator's Manual
What It Exports	Signatures & Data Shapes	Semantics & Guardrails
Example Data	name, params, schema	HKR meaning, featured vs P1 thresholds
Guardrails	System-level (Auth)	Business-level (Don't save items speculatively)
File Location	Backend Server	~/.claude/skills/ax-radar/SKILL.md

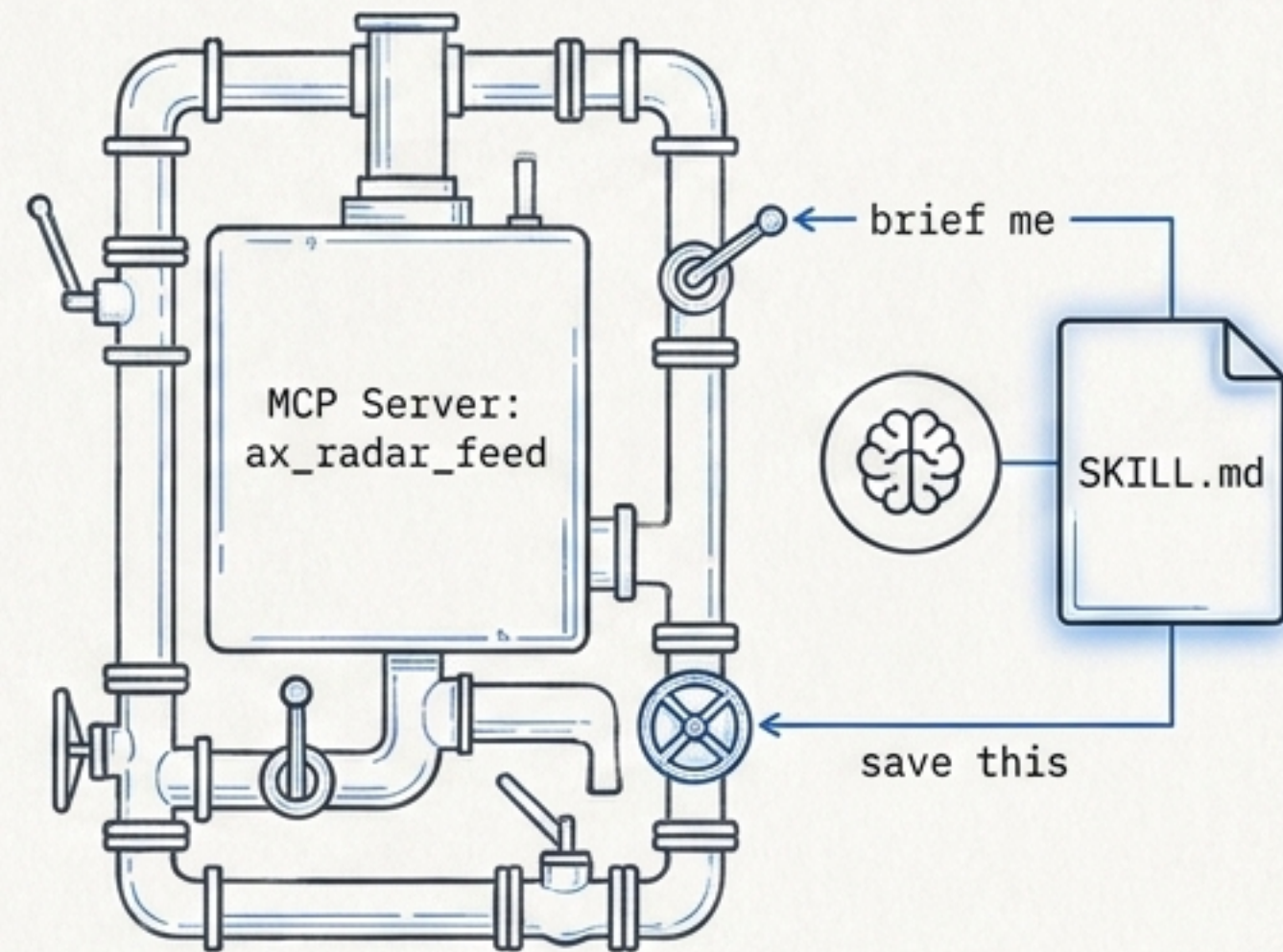
Operating Without a Manual

Without Skill

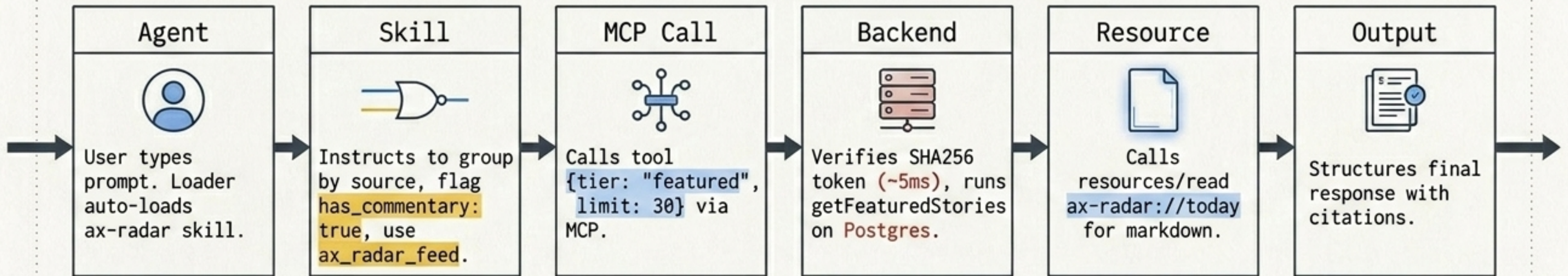


A kid with a wrench.

With Skill

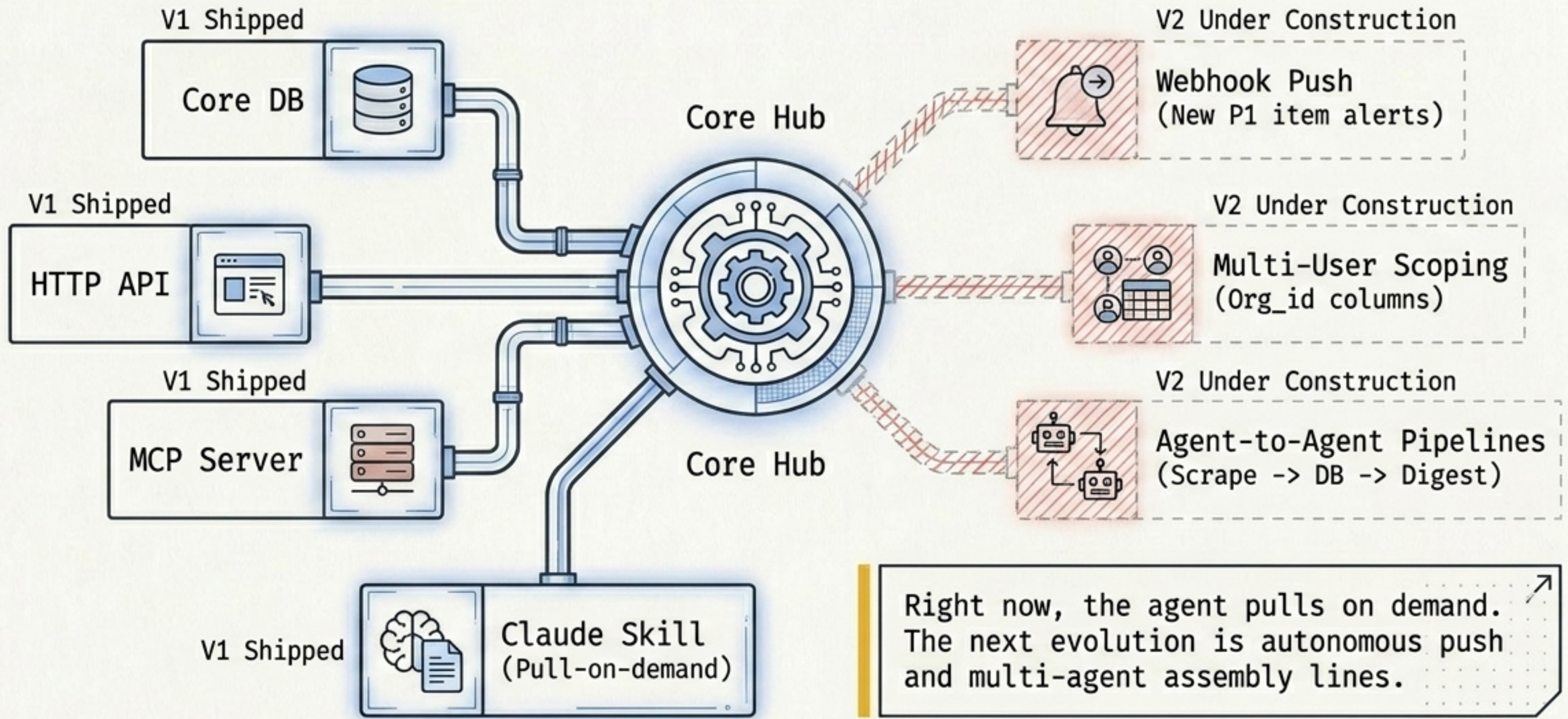


The 5-Second Symphony: Brief me on this week's radar

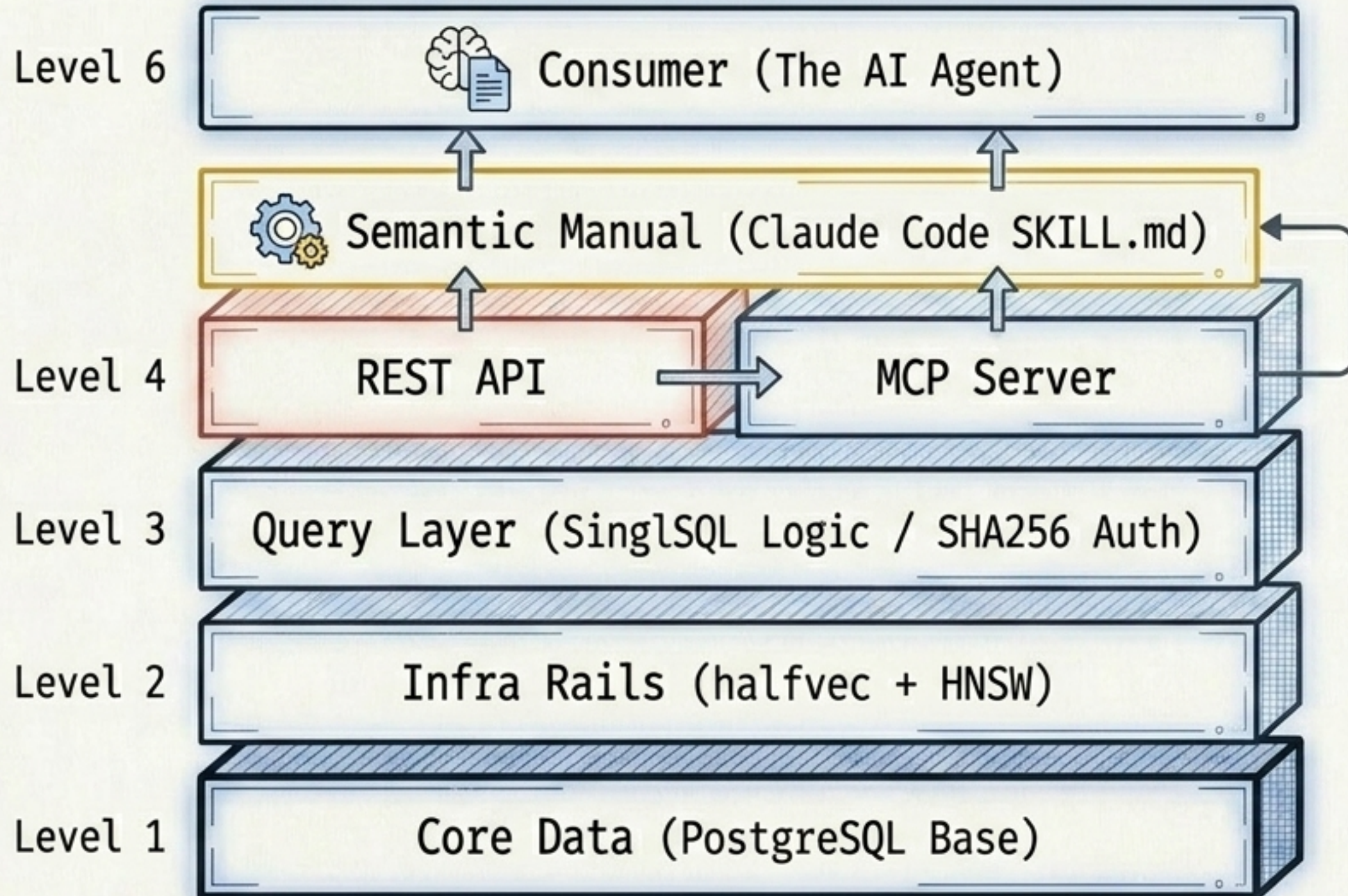


One sentence typed. Six steps executed across multiple architectural layers. Delivered in seconds.

The Expanding Access Blueprint (V2)

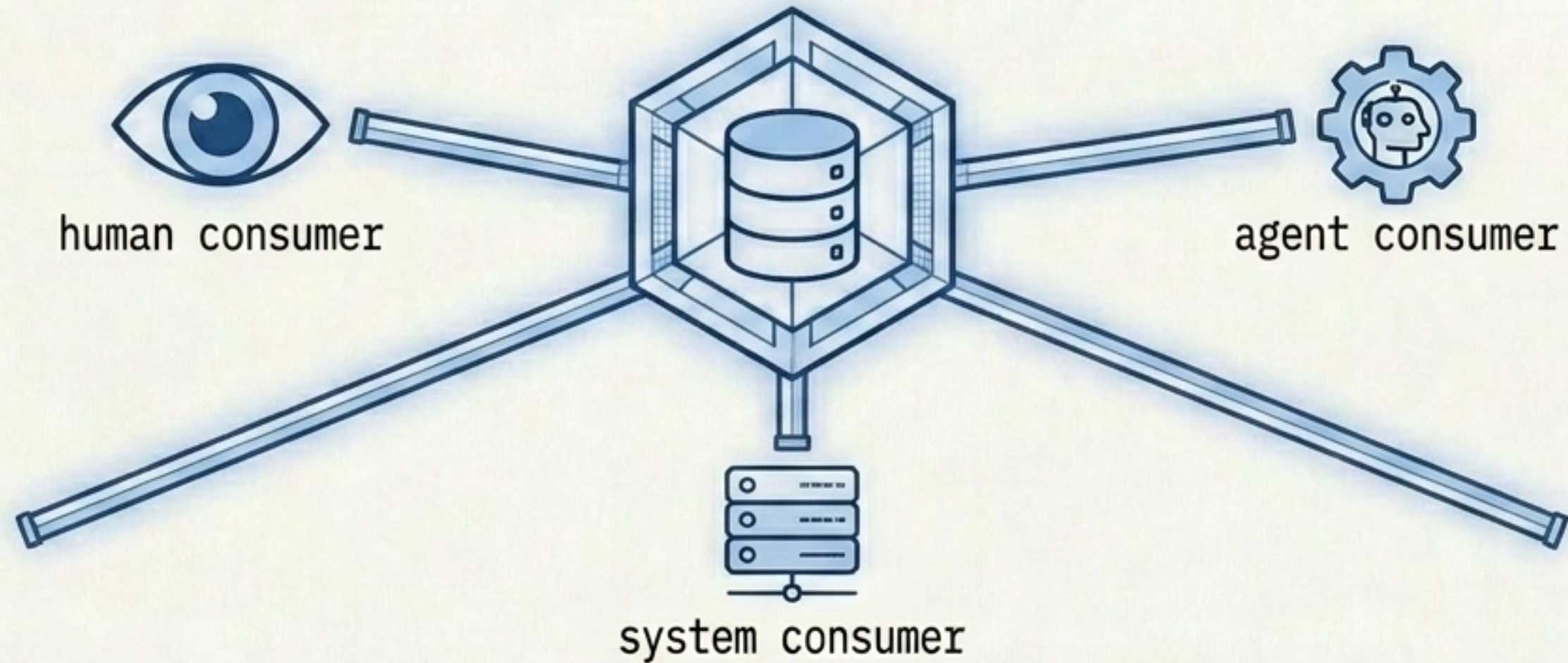


The Architecture of Access



The value isn't isolated in any single layer. It's in the vertical integration that bridges raw database rows seamlessly up into non-human cognition.

The Future of Product Building



Most products ship one face—a web UI—and call it done.
But if your data is worth anything, it will eventually have non-human consumers.
The back half of product building is no longer about adding features.

It's about adding access modes. The backend stays the same.