

BUILD SCALABLE, MULTI-AGENT SOLUTIONS WITH AWS

SoftServe's multi-agent retrieval-augmented generation (RAG) platform delivers information faster, turns insights into actions, and automates processes

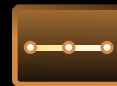
To stay competitive, businesses rely on scalable and customizable Generative AI (Gen AI) solutions that meet evolving market demands. These tools must:



Retrieve information instantly from databases



Convert unstructured data into structured data for insights



Automate processes with specific function calls

SoftServe's RAG platform simplifies this process with a collaborative network of specialized AI agents. You'll hit the ground running, with customizable templates and pilot-ready implementation tailored to your business needs.

THE 5 GEN AI COMPONENTS

- 1 Master agents** orchestrate communication between agents, understand user and agent intents, and execute tasks to data-driven outcomes.
- 2** Instantly retrieve relevant information from your entire knowledge base. **RAG** combines generative models and real-time data retrieval to quickly process unstructured data.
- 3** Anyone in your organization will get insights from the database using plain language — no technical skills needed. **Talk to database (text-to-SQL)** converts natural language queries into structured query language (SQL) statements.
- 4** Transform structured data and create visualizations that help you interpret data and make quicker decisions with **automatic chart generation**.
- 5** Sets intelligent triggers to take action when needed. **Agents (function calling)** automate complex tasks and connect with external systems by running predefined functions and workflows.



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THE COMPONENTS BRING REAL-WORLD VALUE

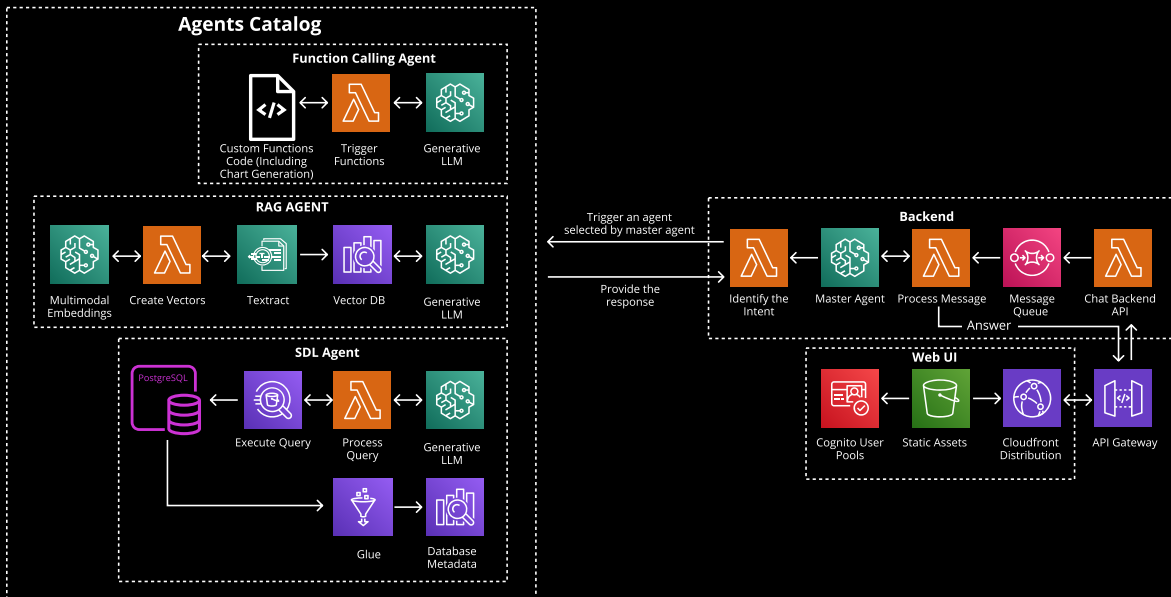
Customer service teams will provide answers to complex questions faster when an AI agent pulls relevant information from large document repositories or knowledge bases.

Analysts will pull their own reports without waiting for IT support. For example, if a user asks, "Show me the top 10 best-selling products this month," the system creates an SQL query to fetch the results.

Executives will see real-time metrics in clear formats when, for example, an AI agent creates a sales trend chart based on daily sales data or displays employee performance metrics from structured HR data.

Employees will retrieve essential information faster through AI-driven tools, streamlining workflows and minimizing the time spent searching for critical data.

ENTERPRISE-READY ARCHITECTURE



BUILT ON SECURE, SCALABLE INFRASTRUCTURE

- **AWS Lambda** and **Amazon Textract** for document processing
- **Amazon OpenSearch** for document indexing and vector search
- **Amazon CloudFront** and **Amazon Cognito** for secure access to UI
- **Amazon SQS** for messaging and history
- **Amazon Bedrock** for state-of-the-art LLMs and Gen AI pipelines

WHY SOFTSERVE



AWS Gen AI Competency Launch Partner: Trusted as a foundational partner for AWS Gen AI initiatives.

Bedrock Launch Partner: Early AWS Bedrock adopter, bringing clients the latest Gen AI tools and scalable solutions.

Proven Experience with 100+ Gen AI Use Cases: Industry expertise with successful implementation of Gen AI solutions, from ideation to production.

ACCELERATE TAILORED SOLUTIONS WITH INTELLIGENT AI AGENTS ON AWS

LEARN MORE

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