

Agentic AI Knowledge & Action Platform



VividCloud's Agentic AI Knowledge & Action Platform is a modular, AWS-native system that unifies enterprise knowledge, reasoning, and automation.

Built on an orchestrated network of autonomous AI agents, the platform enables users to interact with data across databases, APIs, and document repositories through natural language—then go beyond answers to deliver insights, recommendations, and automated actions.

Designed for data-rich enterprises across industries—from legal and manufacturing to healthcare and sales—the platform transforms how organizations discover, reason over, and operationalize their data. It connects fragmented knowledge sources, eliminates information bottlenecks, and creates a dynamic environment for continuous learning and intelligent decision support.

Key Features:



Agent-Orchestrated Intelligence: A central Planner Agent interprets user intent, decomposes complex requests, and coordinates specialized agents (SQL, API, Document, Telemetry, Report Generation) to retrieve facts, synthesize insights, and trigger contextual actions.



Unified Multi-Modal Data Access: Seamlessly connects to databases, RESTful APIs, and unstructured repositories—enabling consistent retrieval and reasoning across telemetry, operational data, contracts, PDFs, and time-series logs without manual aggregation.



Conversational Reasoning Interface: Users ask questions in plain English and receive accurate, explainable answers drawn from structured and unstructured sources. The platform supports context continuity, metadata filtering, and history-aware conversation flow powered by Amazon Bedrock (Claude models).



Actionable Insights & Workflow Automation: Extends beyond information access—agents can generate reports, recommend actions, or initiate workflows, transforming passive knowledge retrieval into proactive decision enablement.



Continuous Learning & Optimization: Using DSPy-based prompt tuning and correctness testing, the system continuously refines its reasoning chains and query strategies, improving accuracy, efficiency, and responsiveness over time.



Enterprise-Grade Security & Compliance: Built on AWS-native services including Bedrock, ECS/Fargate, RDS PGVector, DynamoDB, Cognito, and CloudFront, the platform delivers fine-grained access control, encrypted data handling, and audit-ready governance suitable for regulated industries.



Explainable, Traceable Results: Every response includes provenance metadata and reasoning context, ensuring results are auditable, reproducible, and trustworthy for enterprise users and compliance teams.



Infrastructure as Code (IaC) Deployment: Fully automated deployment via Infrastructure-as-Code ensures consistent, repeatable provisioning across AWS environments—supporting cloud, hybrid, and edge implementations.



Extensible Framework: Each agent can be extended or replaced without disrupting the larger ecosystem, allowing organizations to add new capabilities—such as financial forecasting, legal clause extraction, or IoT analytics.

Target Audience

The solution is ideal for enterprises seeking quick access to internal knowledge repositories in order to streamline decision-making processes. Typical use cases include:



Manufacturing Operations

Root-cause analysis, performance monitoring, and predictive maintenance from IoT/telemetry data.



Energy & Utilities

Anomaly detection and efficiency analysis across distributed assets and sensor networks.



Logistics & Robotics

Operators can review fleet performance, generate compliance summaries, and analyze autonomous system telemetry.



Sales & Operations

Real-time data access across CRM, product catalogs, and ERP systems for instant quoting and insights.

Contact Us

For further details about the technical architecture, high configurability, security and speed, please refer to the FAQ and other documents for this offering.

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