

Safe harbor statement

The following is intended to outline our general product direction. It is intended for information purposes only, and may not be incorporated into any contract. It is not a commitment to deliver any material, code, or functionality, and should not be relied upon in making purchasing decisions. The development, release, timing, and pricing of any features or functionality described for Oracle's products may change and remains at the sole discretion of Oracle Corporation.

ORACLE
Data Deep Dive
at AI World

RAG in a Box

Simplify and Accelerate Data Searches

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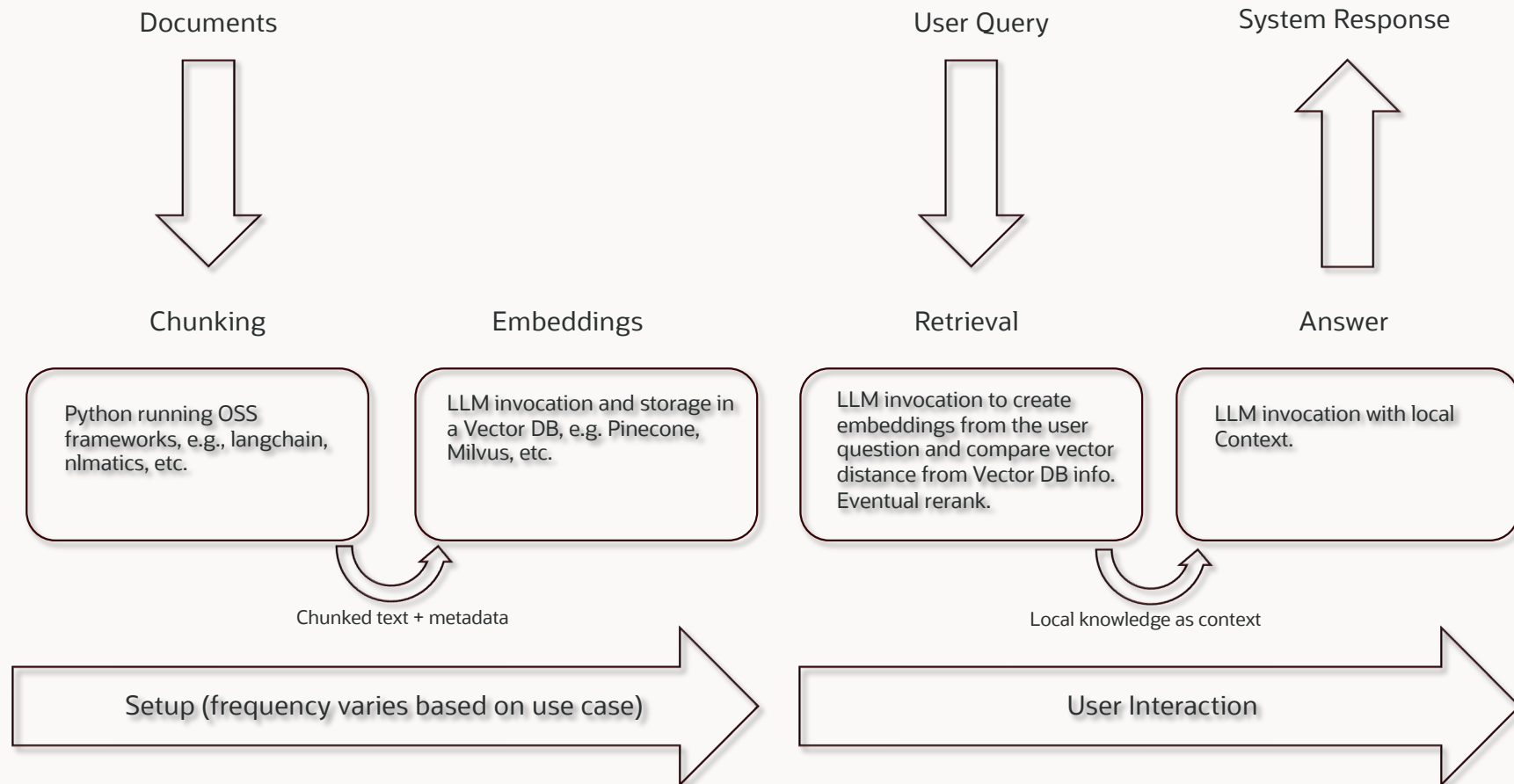
Product Manager for AI Vector Search and Private AI Services Container

Retrieval Augmented Generation (RAG)

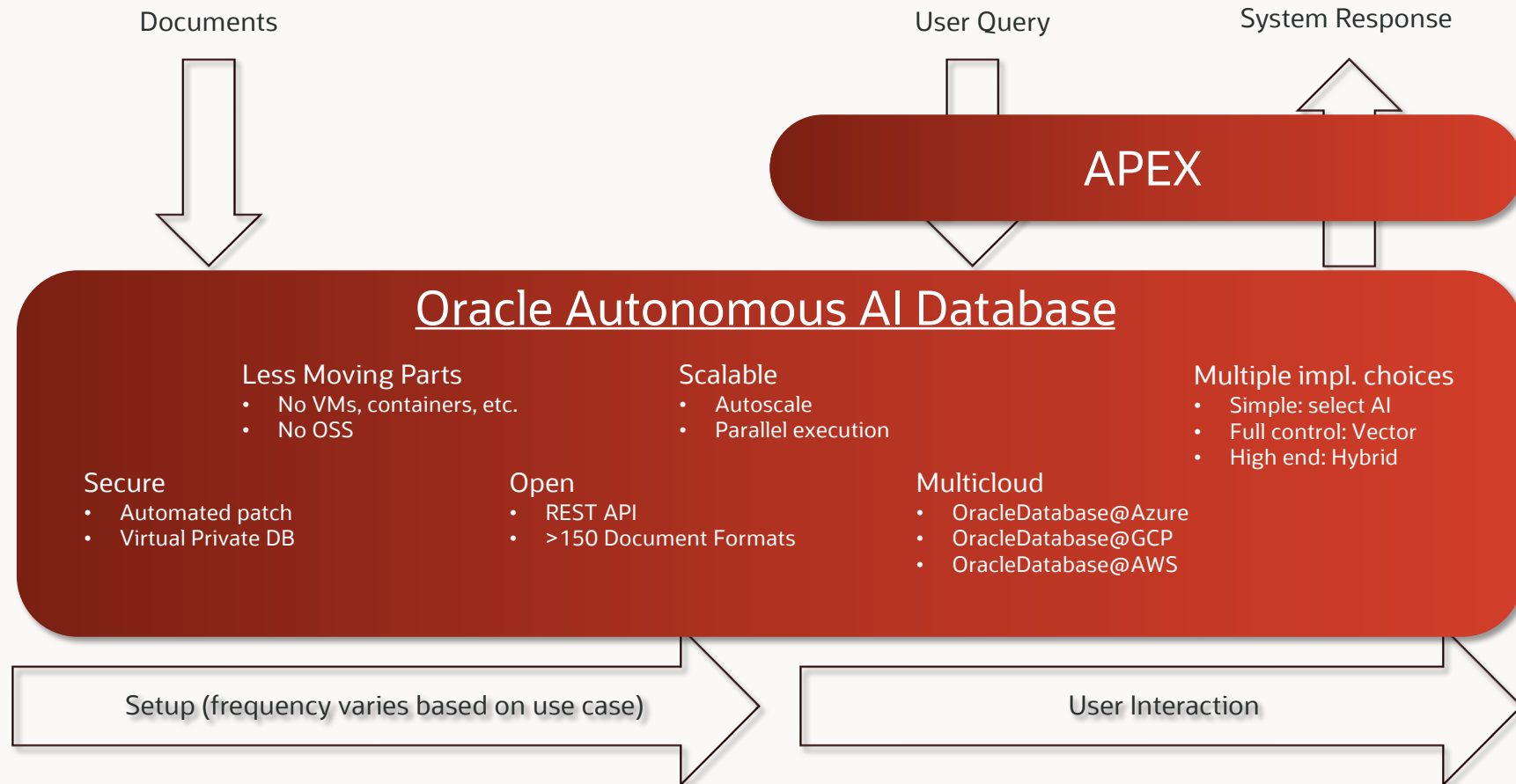
Enables LLMs to use business data to produce better and more contextually relevant answers to user questions while keeping business data secure



Typical RAG Pipeline

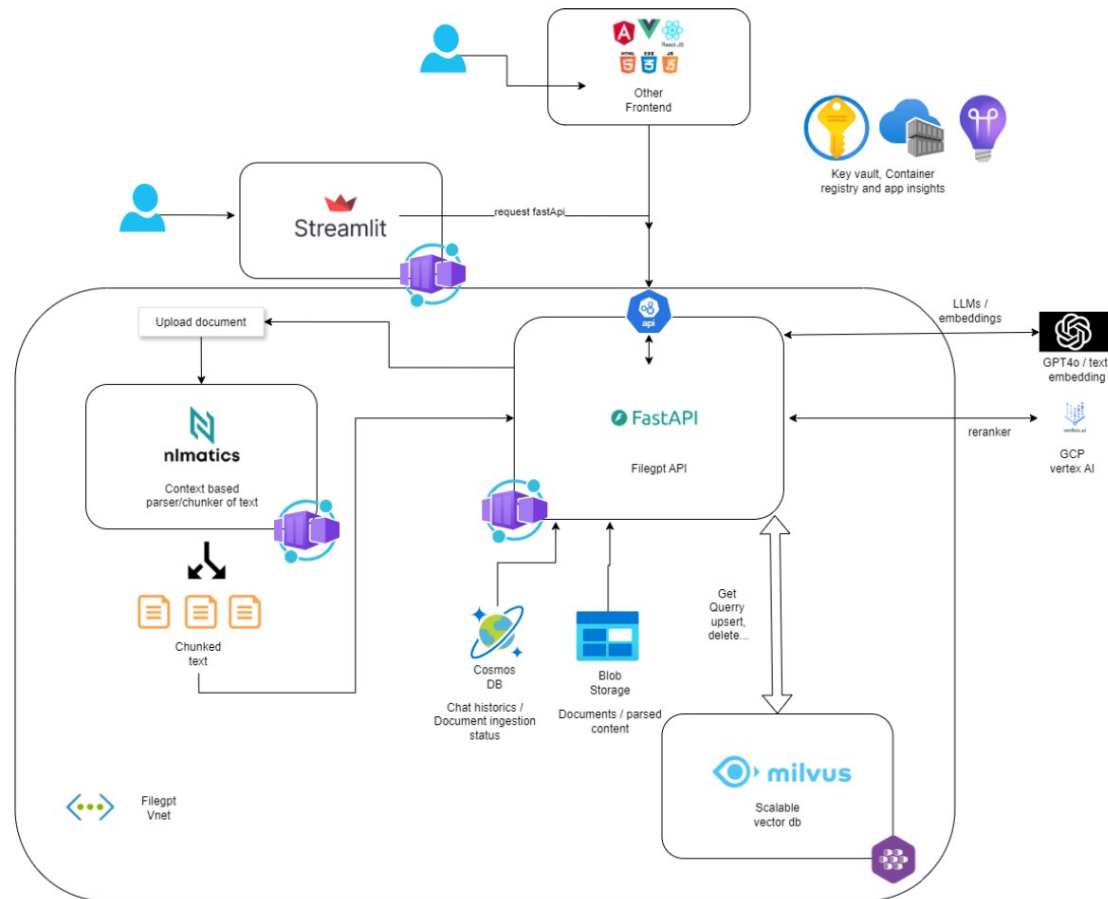


Typical RAG Pipeline



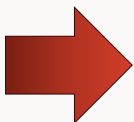
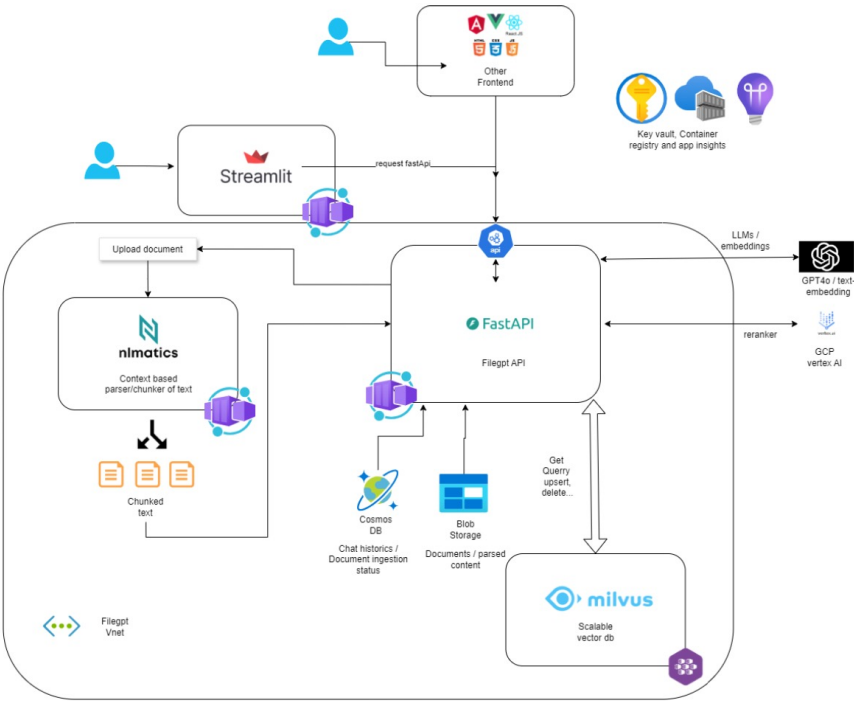
A real architecture as example...

System Architecture

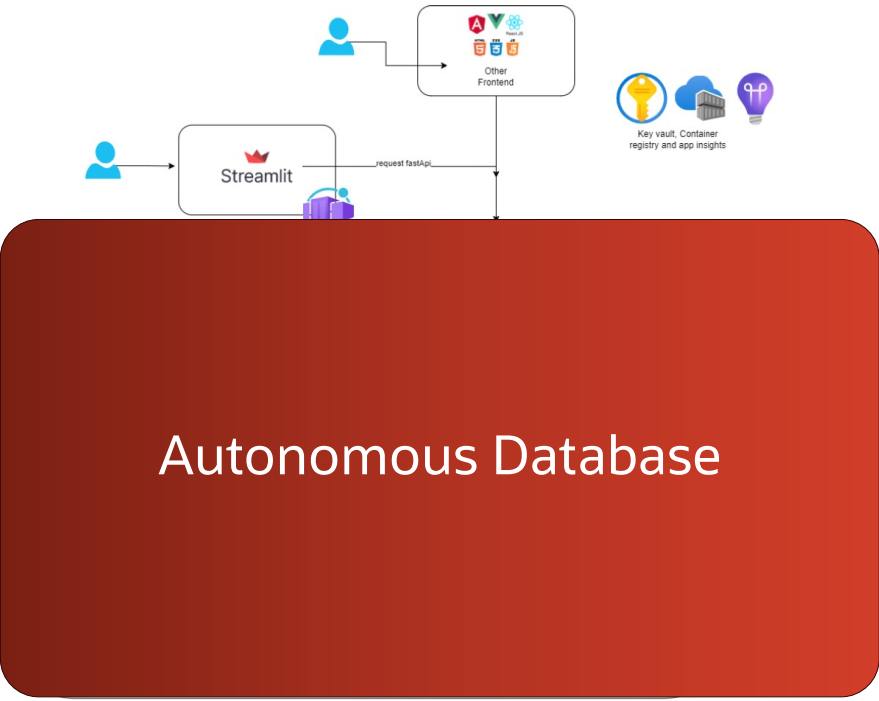


A real architecture as example...

System Architecture



System Architecture

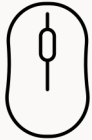


The “Three Ways of RAG” using Autonomous AI Database



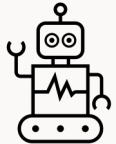
Write your own server code

this is the recommended way when you want total control



No code / use embedded capabilities

this is the recommended way when you are focused on getting a result fast



Agentic approach

this is the recommended way when RAG is to be one part in a larger set of operations

The “Three Ways of RAG” using Autonomous AI Database

Write your own server code – project assumptions

- Domain Knowledge stored as documents in an object store bucket
- Don't want/need to load the documents into the DB first (duplication/cost)
- No front-end dependencies (once I get the answer how it gets visualized is independent from it)

The “Three Ways of RAG” using Autonomous AI Database

Write your own server code – technology choices

- Select AI
 - Essentially just two calls
 - Limited control on process settings
 - SQL interface
- Vector Index
 - Definitely more than two calls
 - Full control on chunking, embedding, results filtering, and answer creation
- Hybrid Vector Index
 - Complex but very powerful query syntax
 - Less control on the settings
 - Huge optimization (avoid expensive reranking!) through union of Text and Vector searches



The “Three Ways of RAG” using Autonomous AI Database

No code approach – just load your documents

The screenshot displays the Oracle Applied AI Studio interface. On the left is a sidebar with navigation options: STUDIO (Getting Started, Template Gallery, My Custom Workflows), PRE-BUILT AGENTS (Knowledge Agent, Data Analysis Agent), UTILITIES (Agent Builder, Prompt Lab, Prompt2Dashboard, SQL Viewer, Datasets), and SETTINGS (Data Sources, SSO, Users). The main area shows a chat window titled "Capacity_Management_Agent" with the description "A knowledge agent trained on capacity management documentation." The chat history shows a user query: "How do I terminate an OCI tenancy request?" and a detailed response from the Knowledge Agent. The response explains the steps to terminate an OCI tenancy request, including verifying permissions, navigating to the OCI console, and selecting "Terminate" from a dropdown menu. Below the response, there are three sources listed: "Requesting a New Commercial Subscription for Your Tenancy", "Terminating an Internal Account", and "Capacity or Tenancy Requests". The user's input field at the bottom contains the text "How can I help you?".

ORACLE Applied AI Studio echelon_admin@oracle.com

STUDIO

- Getting Started
- Template Gallery
- My Custom Workflows

PRE-BUILT AGENTS

- Knowledge Agent
- Data Analysis Agent

UTILITIES

- Agent Builder
- Prompt Lab
- Prompt2Dashboard
- SQL Viewer
- Datasets

SETTINGS

- Data Sources
- SSO
- Users

Capacity_Management_Agent
A knowledge agent trained on capacity management documentation.

Messages Chat History Help + New Chat

echelon_admin@oracle.com (You) 7/29/2025, 12:01:10 PM

How do I terminate an OCI tenancy request?

Knowledge Agent 7/29/2025, 12:01:17 PM

To terminate an OCI tenancy request, you can follow these steps: Ensure that you have the necessary access permissions to manage OCI tenancies. Only users with the appropriate privileges, such as a tenancy administrator, can terminate tenancy requests. Verify that the tenancy request you want to terminate is in a state that can be terminated. Check the tenancy request status to ensure that it is not in a pending or provisioning state. Open a web browser and navigate to the OCI console. Sign in to the OCI console using your credentials. Navigate to the Tenancies page and locate the tenancy request you want to terminate. Click on the three vertical dots next to the tenancy request and select "Terminate" from the dropdown menu. Confirm that you want to terminate the tenancy request by clicking "Terminate" in the confirmation dialog box. Verify that the tenancy request has been terminated successfully. You can check the tenancy request status to ensure that it has been updated to "Terminated". It is essential to note that terminating a tenancy request will release the capacity associated with it, making it available for reclamation and reuse.

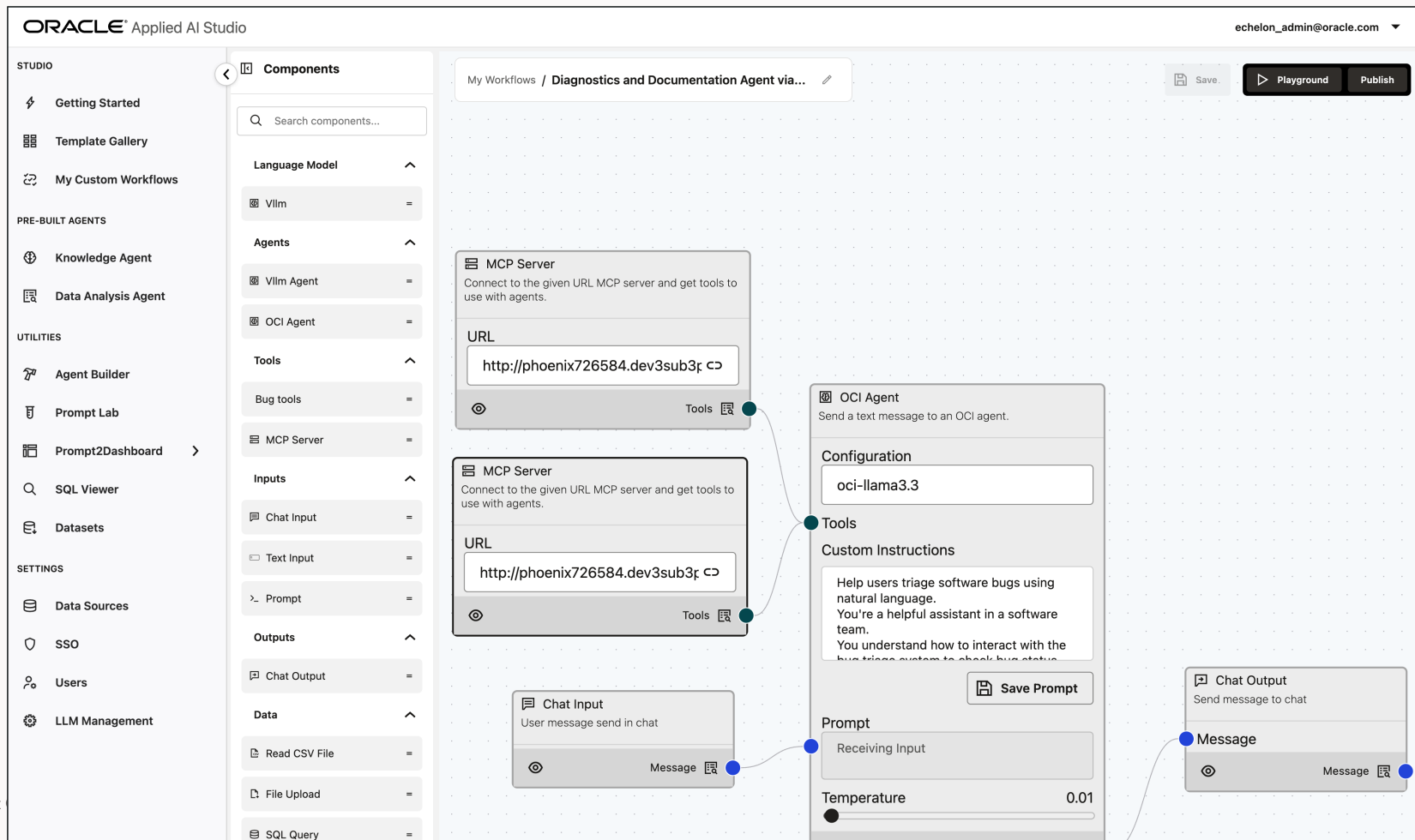
Sources

- [Requesting a New Commercial Subscription for Your Tenancy](#)
- [Terminating an Internal Account](#)
- [Capacity or Tenancy Requests](#)

How can I help you?

The “Three Ways of RAG” using Autonomous AI Database

Agentic RAG – build your own RAG agent



Recap & Take Aways

1

Oracle Autonomous AI Database helps reduce complexity

It is multicloud, secure and scalable

2

Multiple technology paths

Freedom of choice between code, no-code, and agentic approach

3

Focus on the business case of the RAG solution

Technology makes it simple, but be very clear on what business problem you are addressing



RAG in a Box
Blog Article



Select AI



Vector Search



Hybrid Vector Search



**Your feedback is
important.**

**Scan this QR Code or use
the Mobile App to share
your thoughts on this
session.**



To contact us

Massimo Castelli



Doug Hood



Thank you!

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