

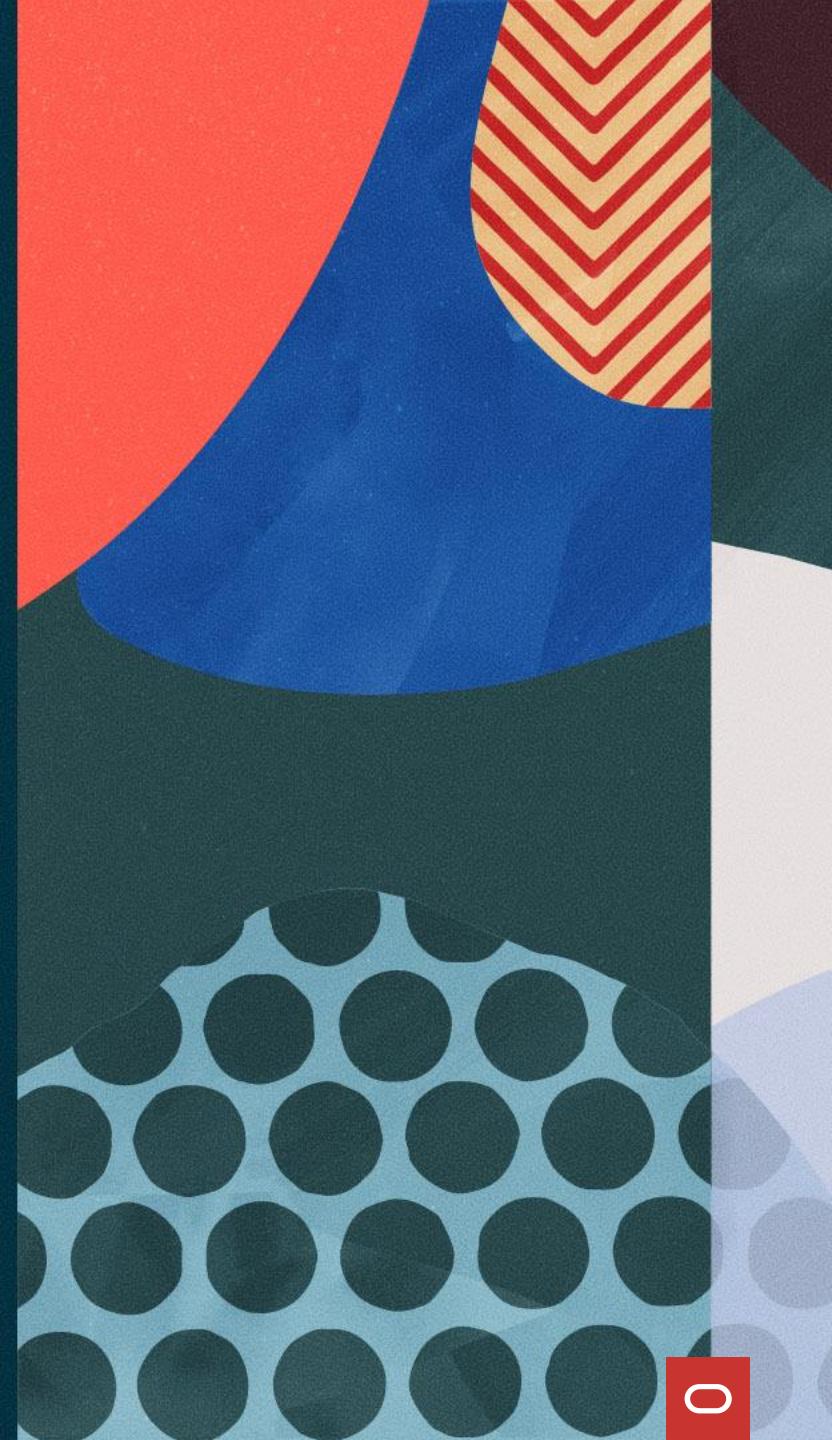
ORACLE

AI World

The Future of Generative AI: Innovation Engineered for Your Data

Roger Barga

Senior Vice President
AI & ML



**Purchasing AI tools succeeds about 67%
of the time, while internal builds succeed
only one-third as often**

~MIT: *The GenAI Divide: State of AI in Business 2025*

Innovations in AI at Oracle



Differentiated Approach: Choices in Frontier Models

| Google | XAI | Meta | Cohere | OpenAI |
|---------------------------|----------------------|----------------------|-------------|------------------|
| NEW Gemini 2.5 pro | NEW Grok 4 | NEW Llama 4 Maverick | NEW Embed 4 | NEW gpt-oss-120b |
| NEW Gemini 2.5 flash | NEW Grok 4 Fast | NEW Llama 4 Scout | Embed 3 | NEW gpt-oss-20b |
| NEW Gemini 2.5 flash-lite | NEW Grok Code Fast 1 | Llama 3.3 70B | Command A | Rerank 3.5 |
| | Grok 3 | Llama 3.2 90B | | |
| | | Llama 3.2 11B | | |

Latest Science Innovations

Open Agent Specification + AGNTCY

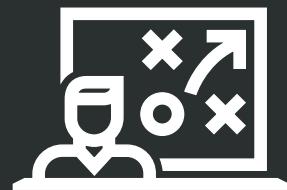


Latest Science Innovations



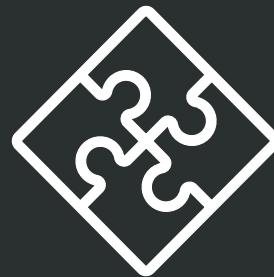
Multimodal RAG

Efficiently process large-scale, diverse datasets



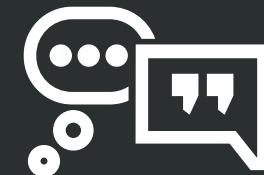
Evaluation

A state-of-the-art benchmarking framework for frontier models



Agents

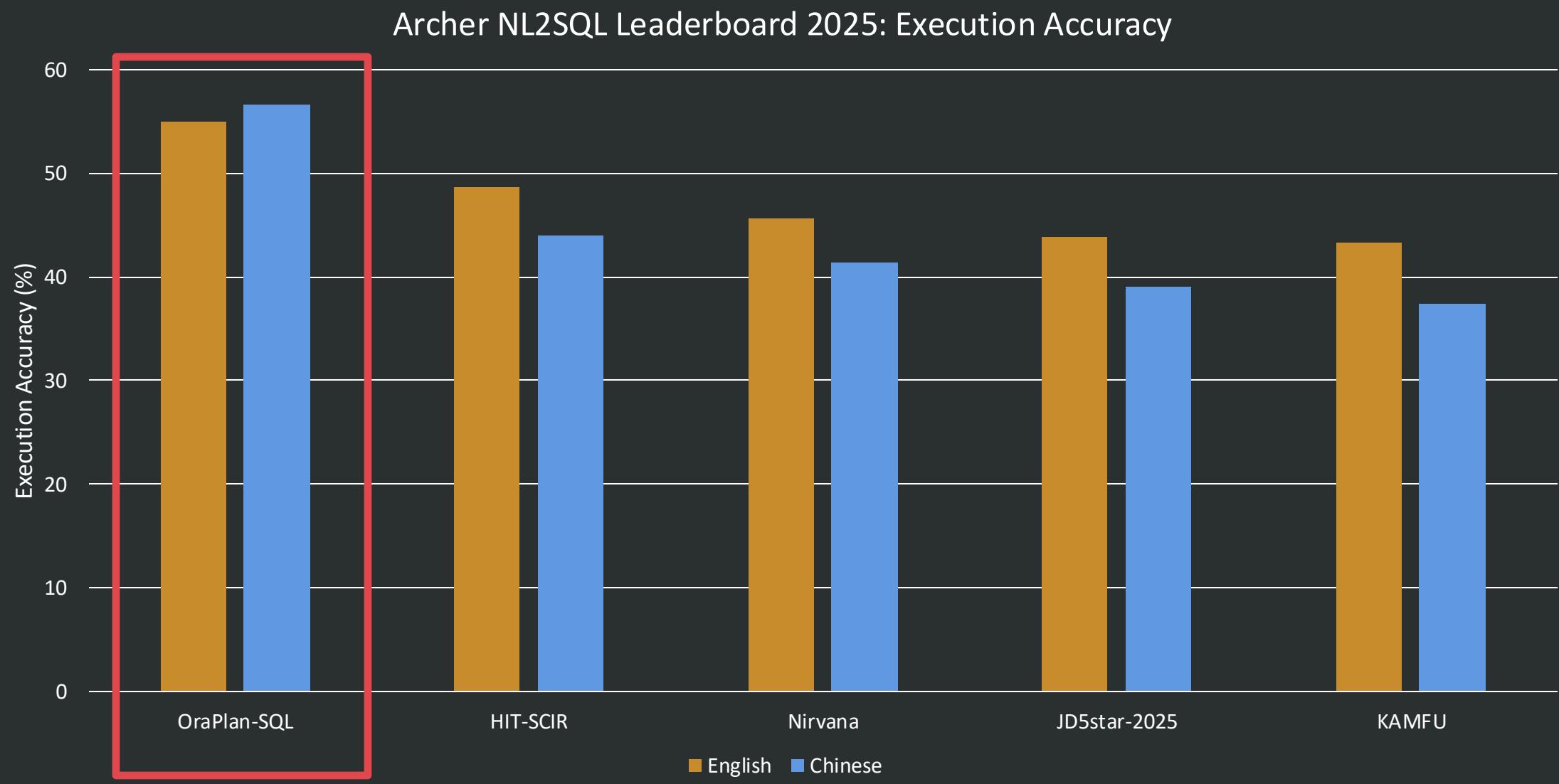
New methods for context & memory management, advanced planning, and standardized protocols for enterprise integration



Speech

New feature enables creation of more dynamic AI-generated avatars

Oracle Wins 1st Place in 2025 Archer NL2SQL Challenge



Deriving value from AI

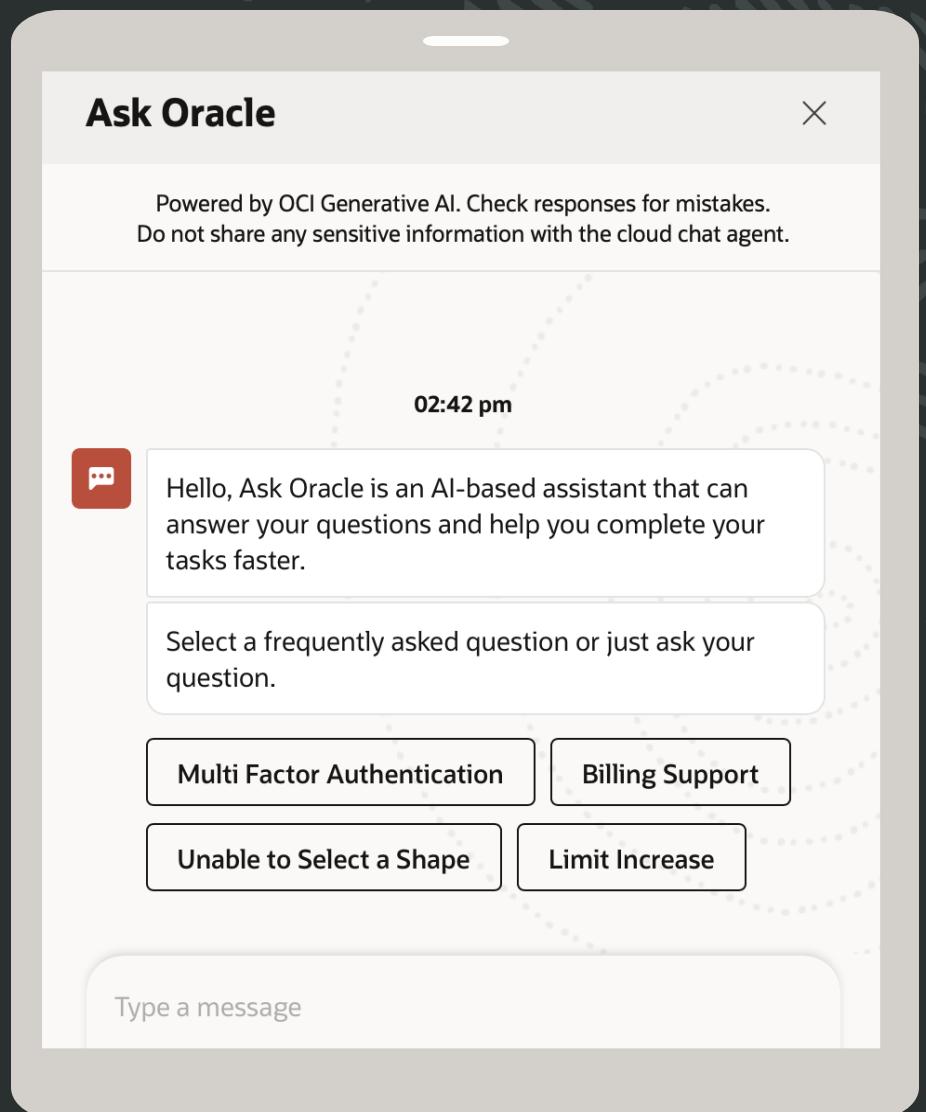
AI in action at Oracle



Oracle AI for Support

64%

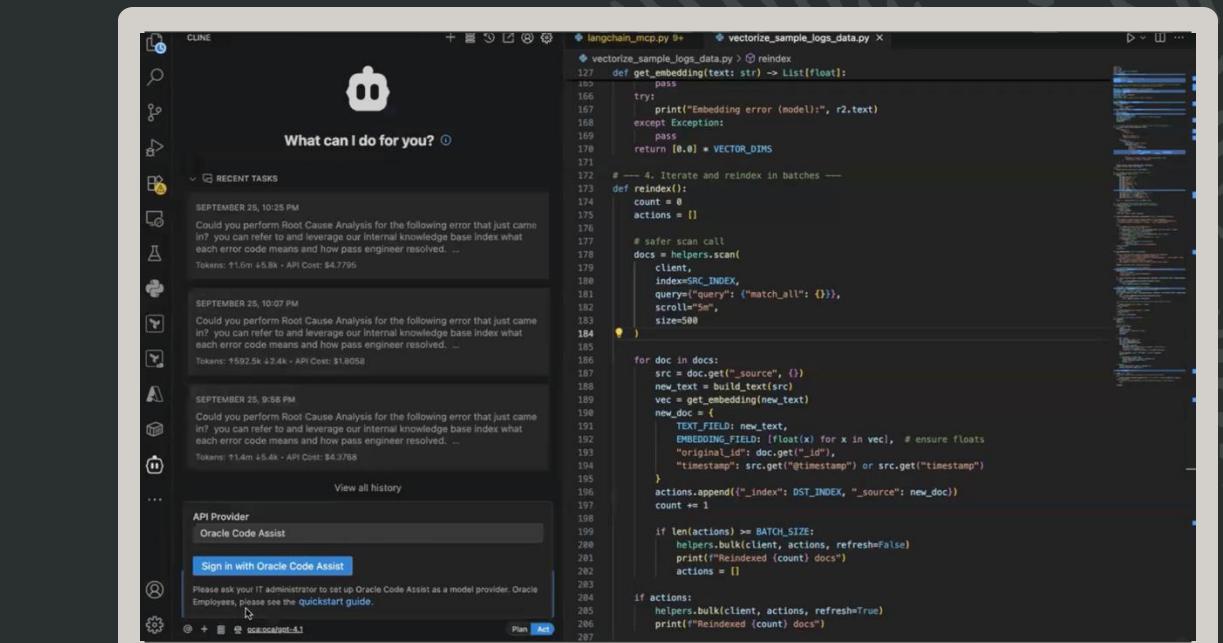
Overall deflection rate in the first quarter post-implementation



Oracle Code Assist for Developers

10 hours per week

Reported time savings from thousands of developers across Oracle



The screenshot shows a developer's workspace. On the left, there's a sidebar titled 'RECENT TASKS' with three entries from September 25:

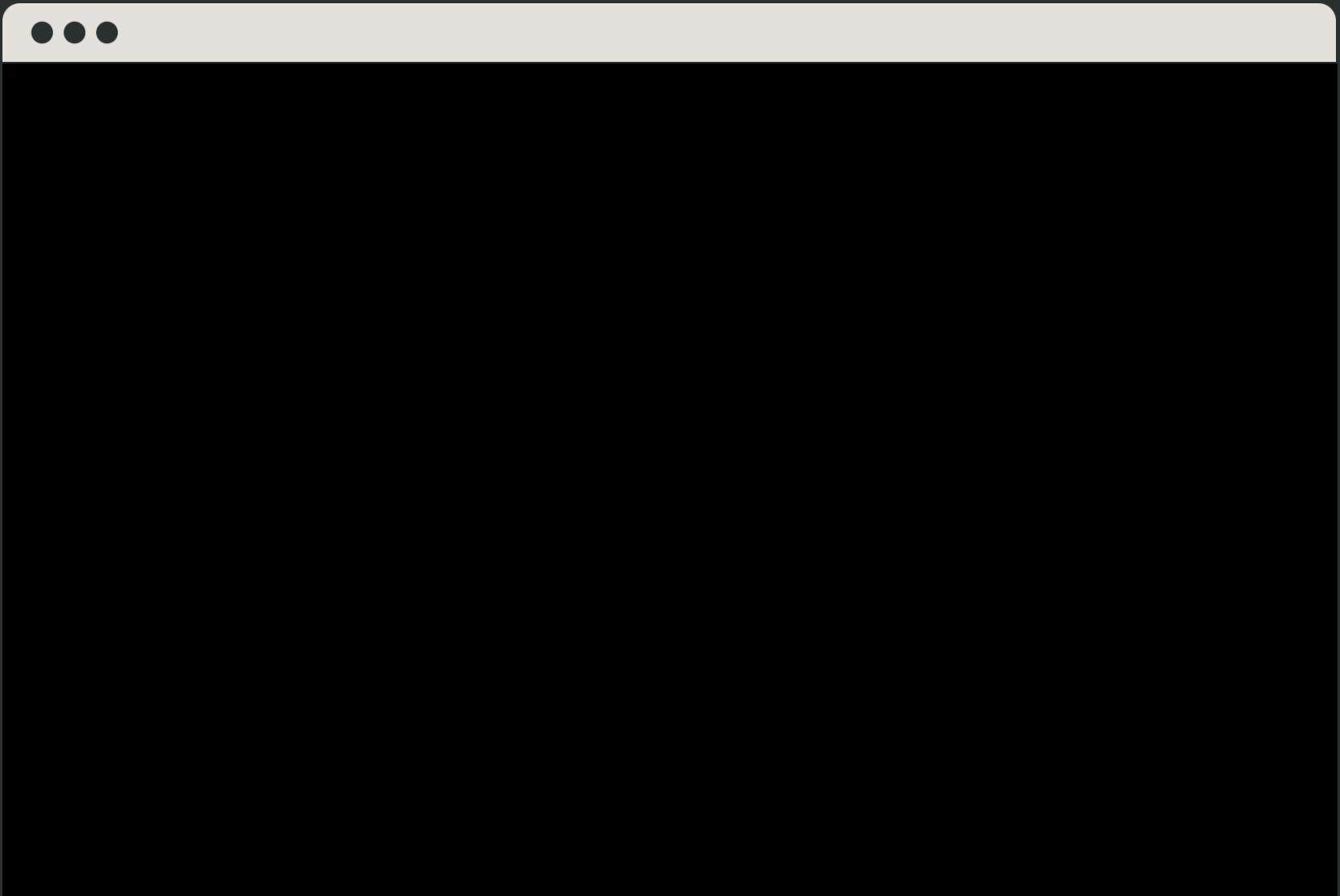
- 10:28 PM: Could you perform Root Cause Analysis for the following error that just came in? You can refer to and leverage our internal knowledge base index what each error code means and how pass engineer resolved. ... Tokens: 11.0m +5.8k - API Cost: \$4.7795
- 10:07 PM: Could you perform Root Cause Analysis for the following error that just came in? You can refer to and leverage our internal knowledge base index what each error code means and how pass engineer resolved. ... Tokens: 1592.5k +2.4k - API Cost: \$1.8058
- 9:58 PM: Could you perform Root Cause Analysis for the following error that just came in? You can refer to and leverage our internal knowledge base index what each error code means and how pass engineer resolved. ... Tokens: 11.4m +5.4k - API Cost: \$4.3768

Below the sidebar, there's a section for 'API Provider' with a button 'Sign in with Oracle Code Assist'. A note says: 'Please ask your IT administrator to set up Oracle Code Assist as a model provider. Oracle Employees, please see the quickstart guide.'

The main area is a code editor with two tabs open: 'langchain_mcp.py' and 'vectorize_sample_logs_data.py'. The code in 'vectorize_sample_logs_data.py' is as follows:

```
127 def get_embedding(text: str) -> List[float]:  
128     pass  
129     try:  
130         print(f"Embedding error (model):", r2.text)  
131     except Exception:  
132         pass  
133     return [0.0] * VECTOR_DIMS  
134  
135 # --- 4. Iterate and reindex in batches ---  
136 def reindex():  
137     count = 0  
138     actions = []  
139  
140     # safer scan call  
141     docs = helpers.scan(  
142         client,  
143         index=SRC_INDEX,  
144         query={"query": {"match_all": {}}},  
145         scroll="5m",  
146         size=500  
147     )  
148  
149     for doc in docs:  
150         src = doc.get("_source", {})  
151         new_text = build_text(src)  
152         vec = get_embedding(new_text)  
153         new_doc = {  
154             TEXT_FIELD: new_text,  
155             EMBEDDING_FIELD: [float(x) for x in vec], # ensure floats  
156             "original_id": doc.get("_id"),  
157             "timestamp": src.get("@timestamp") or src.get("timestamp")  
158         }  
159         actions.append({"_index": DST_INDEX, "_source": new_doc})  
160         count += 1  
161  
162     if len(actions) >= BATCH_SIZE:  
163         helpers.bulk(client, actions, refresh=False)  
164         print(f"Reindexed {count} docs")  
165         actions = []  
166  
167     if actions:  
168         helpers.bulk(client, actions, refresh=True)  
169         print(f"Reindexed {count} docs")  
170  
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Code Assist Demo



Announcing Code Assist Limited Availability Program

Sign up today:



Oracle Chat for Knowledge Workers

| How can I help you today?

+  Code Interpreter

Using OCI Generative AI Agent Hub's new intuitive chat interface, any employee can build and deploy agents to accelerate work. From APIs for developers to a simple chat interface for non-developers, Oracle is democratizing innovation with AI:

93%

are very or extremely likely to recommend Oracle's AI assistant to a colleague

80%

state their work quality has improved

50%

saved at least an hour per week

AI Assistant for Knowledge Workers

The screenshot shows the Oracle Generative Chat interface. At the top, there's a header with three dots, a generative icon, and the text "Generative Chat". Below that is a navigation bar with a menu icon, a pencil icon, and the text "Marketing Assistant" followed by a dropdown arrow. There's also a "Set as default" link and a user profile icon.

The main content area features a red circular icon with a white gear and wrench symbol. Below it is the title "Marketing Assistant" in bold. A subtitle states: "This model has been designed to be an assistant for commonly used tasks in Oracle Marketing team. Type / to see prompts you can use." Underneath, there's a "Suggested" section with two items:

- "Write copy for the landing page of a webinar" with a "Prompt" link.
- "Generate a LinkedIn post" with a "Prompt" link.

Below these suggestions is another section titled "Write a one paragraph abstract" with a "Prompt" link.

At the bottom of the interface is a message input field with the placeholder "Send a Message" and a "Code Interpreter" button. To the right of the input field is a small upward arrow icon. At the very bottom, there are links for "View usage restrictions", "Terms of use and privacy", "Copyright © 2025, Oracle and/or its affiliates. All rights reserved.", "Status | Help", and a large red "O" icon.

Oracle is an AI-first Company





LLMs

Actions

Build Your Own AI Agents with OCI Generative AI Agent Hub



Choice and flexibility

Choose from a unique mix of frontier models that is only offered by Oracle



Open and extensible

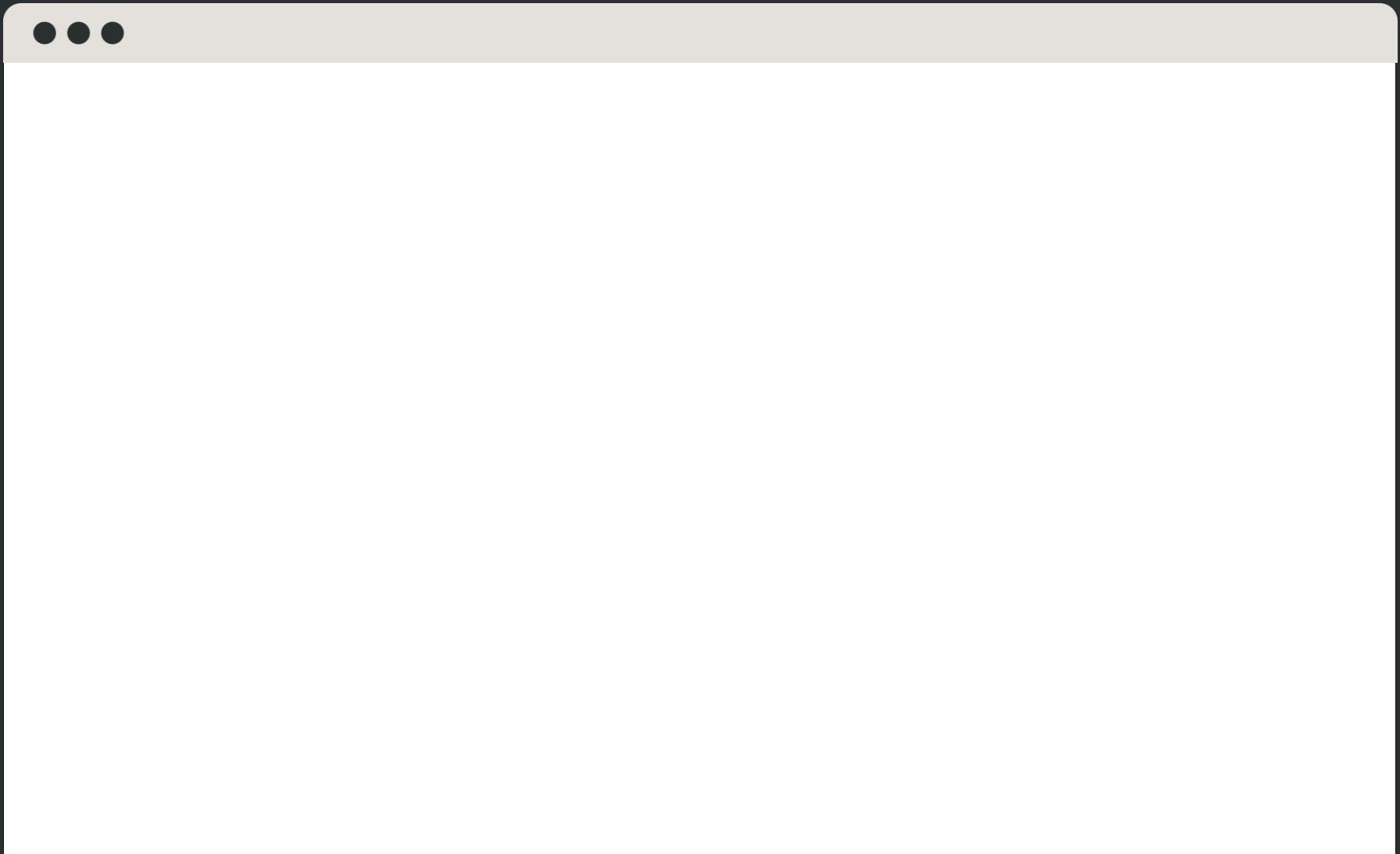
Compatible with open protocols that are industry-wide standards, such as A2A, MCP, and the OpenAI Responses API



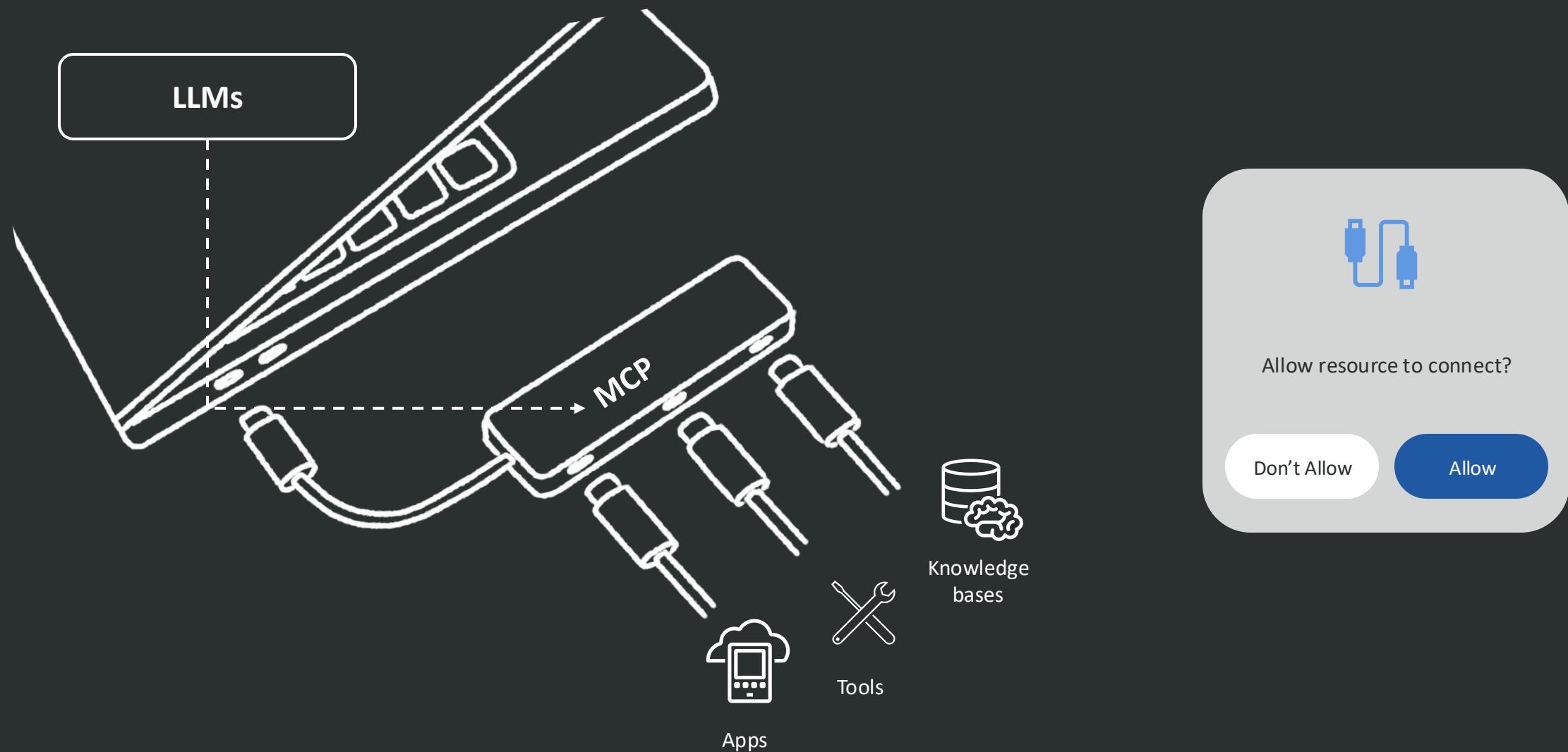
Maximum results, minimum effort

A fully managed platform built for enterprise use cases, with security, observability, and governance built in

Multi-Agents Demo



Model Context Protocol (MCP): How It's Used—and the Risks Involved



MCP Guardrails and Security: Three-layer Approach



Block



Detect and Stop



Governance

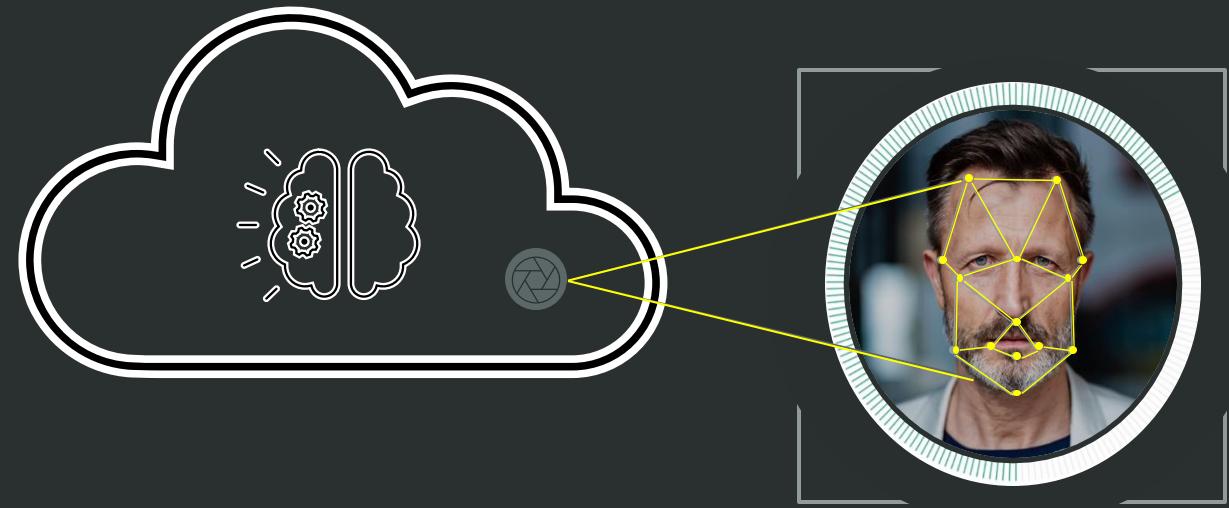
OCI-Native Facial Biometrics

Powered by Biometrics AI from Oracle

OCI IAM will use Biometrics AI for enrollment and verification checks.

Extensible to other use cases

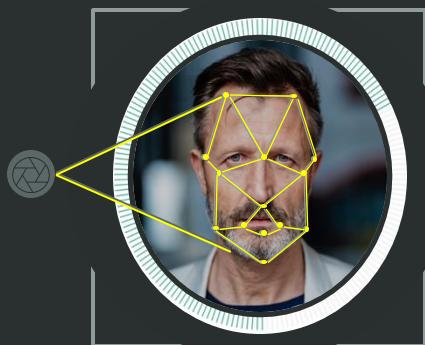
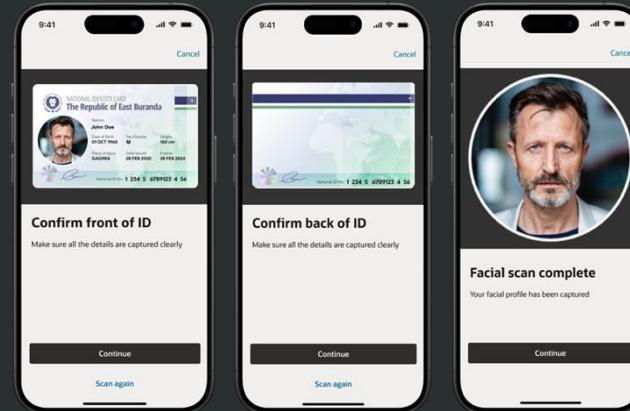
Facial biometrics will initially support Continuous Workforce Verification. As our models mature, we will extend support to authentication scenarios (biometrics as 2FA, account recovery).



Continuous Workforce Verification – How It Works

Step 1

Identity Verification checks the user's government-issued ID.



Step 2

IDV verified user enrolls in CWV via AI-backed Oracle Facial Biometric service.

Step 3

CWV verifies the user against their profile on a weekly basis during sign-in.



Real-world impact: customer stories

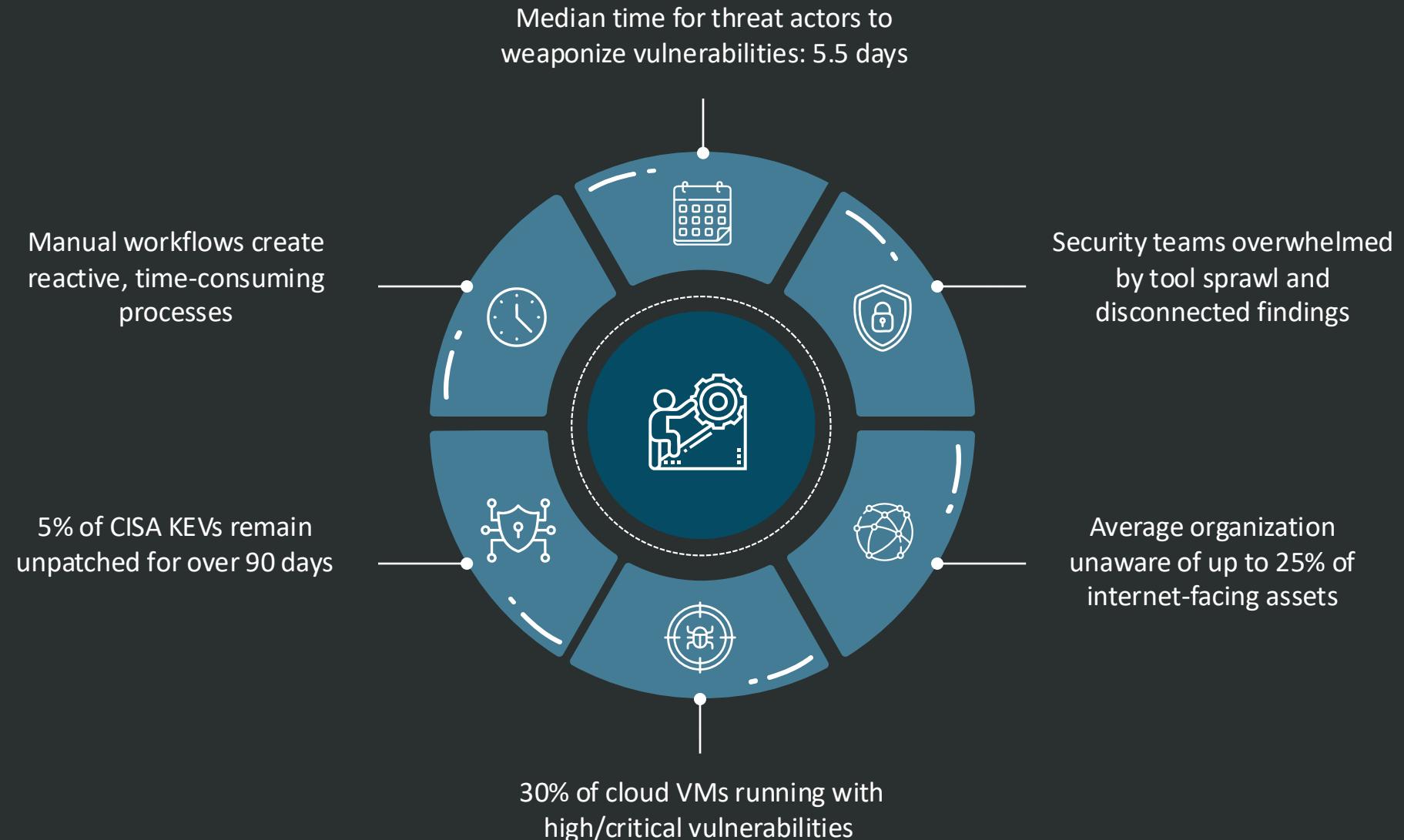


Qualys®

Balaji Venkatesan

Senior Director AI and Data Platform

Current Vulnerability Management Challenges



Qualys Agentic AI Solution

Two Main Innovations



Marketplace of Ready-to-use
Cyber Risk AI Agents



Cyber Risk Assistant
(prompt-driven interface)

Key Features



Integrated into
Enterprise TruRisk
Management
(ETM)



Built on Qualys
AI Fabric
architecture



Enables
autonomous
cybersecurity
operations

Key Business Impact & Benefits

Democratized Data Access

Streamline fragmented security data exploration

Enhanced Productivity

Reduce MTTR through autonomous risk reduction

Intelligent Decision Support

Transform data into ranked, actionable insights

Cost Optimization

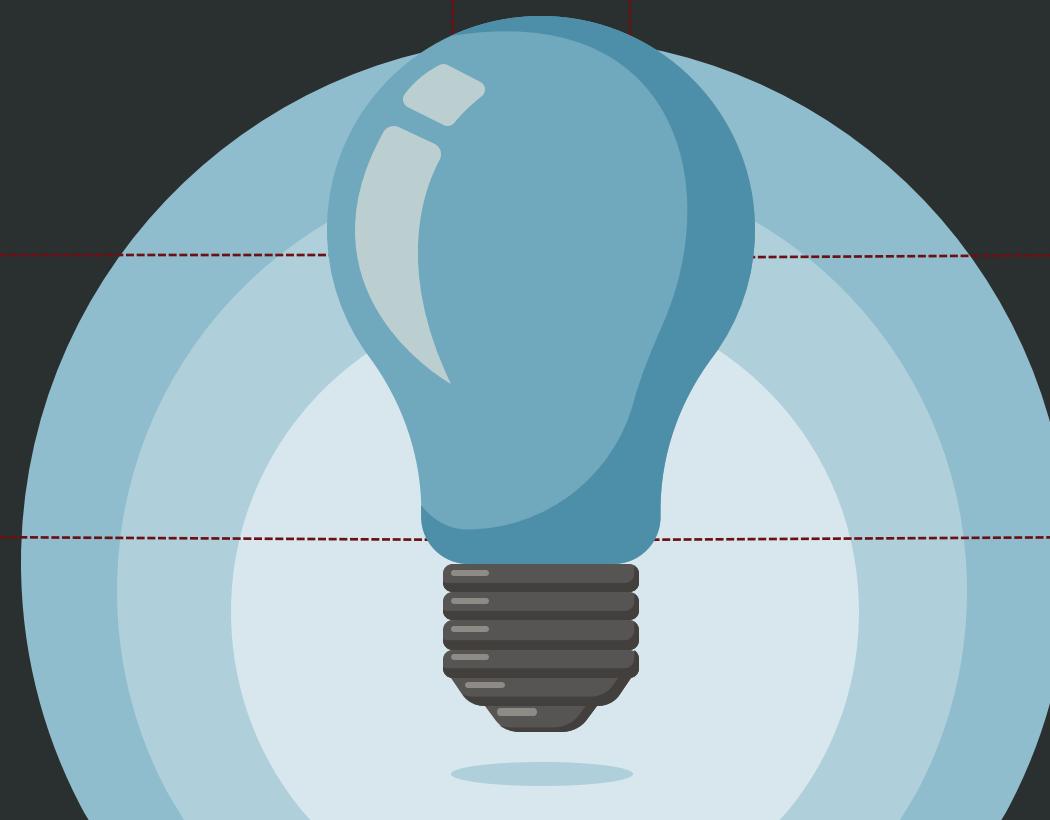
Focus security teams on strategic initiatives

Proactive Security

Shift from reactive measures to proactive strategies

Measurable ROI

10,000-20,000 hours saved per audit (Agent Chang example)



Oracle's AI Transformation

Lessons on becoming an AI-first company

- 1 Rely on tested and established technology as the foundation to innovate.
- 2 Open and extensible systems allow for greatest flexibility to address unique business needs.
- 3 Find the right use cases to make maximum impact. Automate core processes, drive workflow efficiency, and integrate AI with your enterprise data.

Key Takeaways

Innovations in Oracle for Business

Derive Real Value from AI

Building an AI-first Enterprise



Continue Your Oracle AI Journey

The Complete Enterprise AI Stack: Frontier Models at Oracle [PAN3048]

Wednesday, Oct 15 | 11:00 AM – 11:45 AM PDT

Accelerating AI in Financial Services: Business-Integrated AI Agents [LRN2133]

Wednesday, Oct 15 | 1:00 PM – 1:45 PM PDT

AI Trends for the Enterprise: Vibe Coding, Model Distillation, and More [LRN3045]

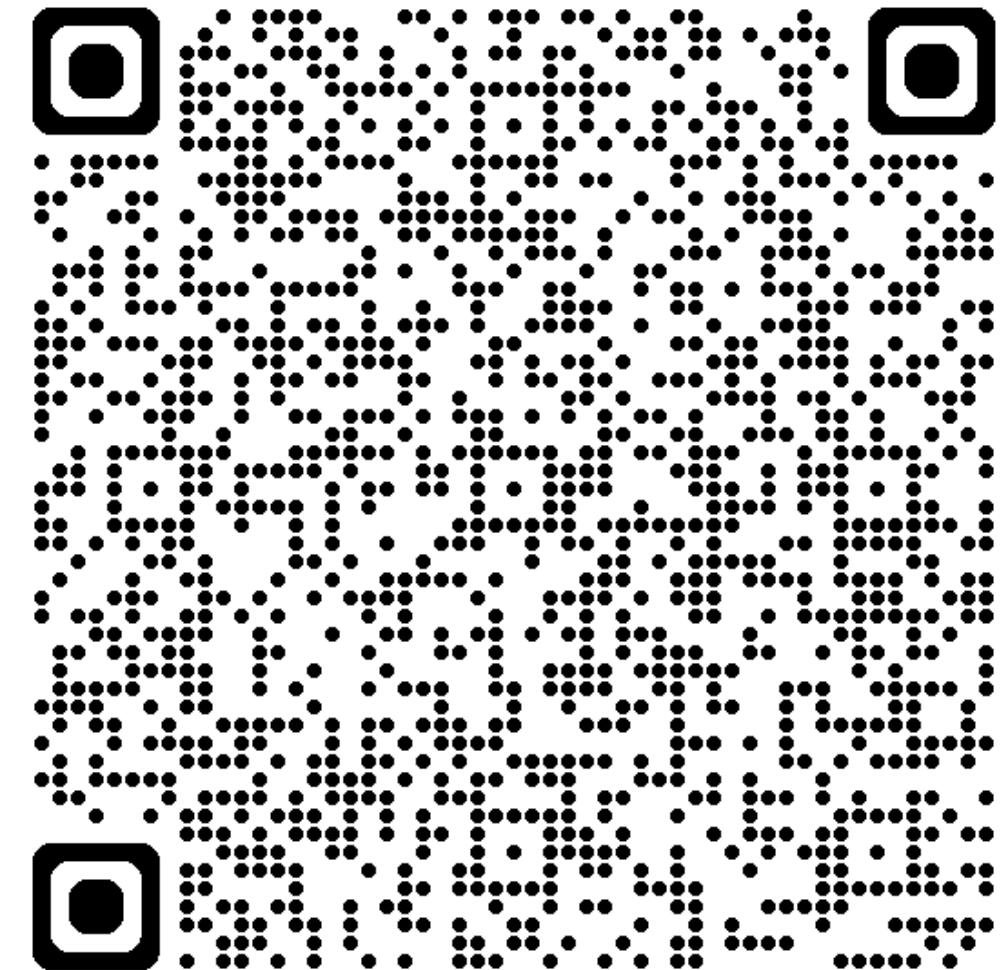
Wednesday Oct 15 | 2:15 PM - 3:00 PM PDT

Build, Customize, and Operationalize: Agentic AI for the Enterprise [LRN3044]

Wednesday, Oct 14 | 4:45 PM - 5:30 PM PDT

Generative AI in Business Applications: Insights and Strategies [BOF3082]

Wednesday, Oct 15 | 4:45 PM - 5:30 PM PDT



Scan this QR code to view all sessions from the Oracle AI team

ORACLE