

ORACLE  
AI World



# Agentic AI on Vulnerability Management

Transforming Cybersecurity from Reactive to Autonomous

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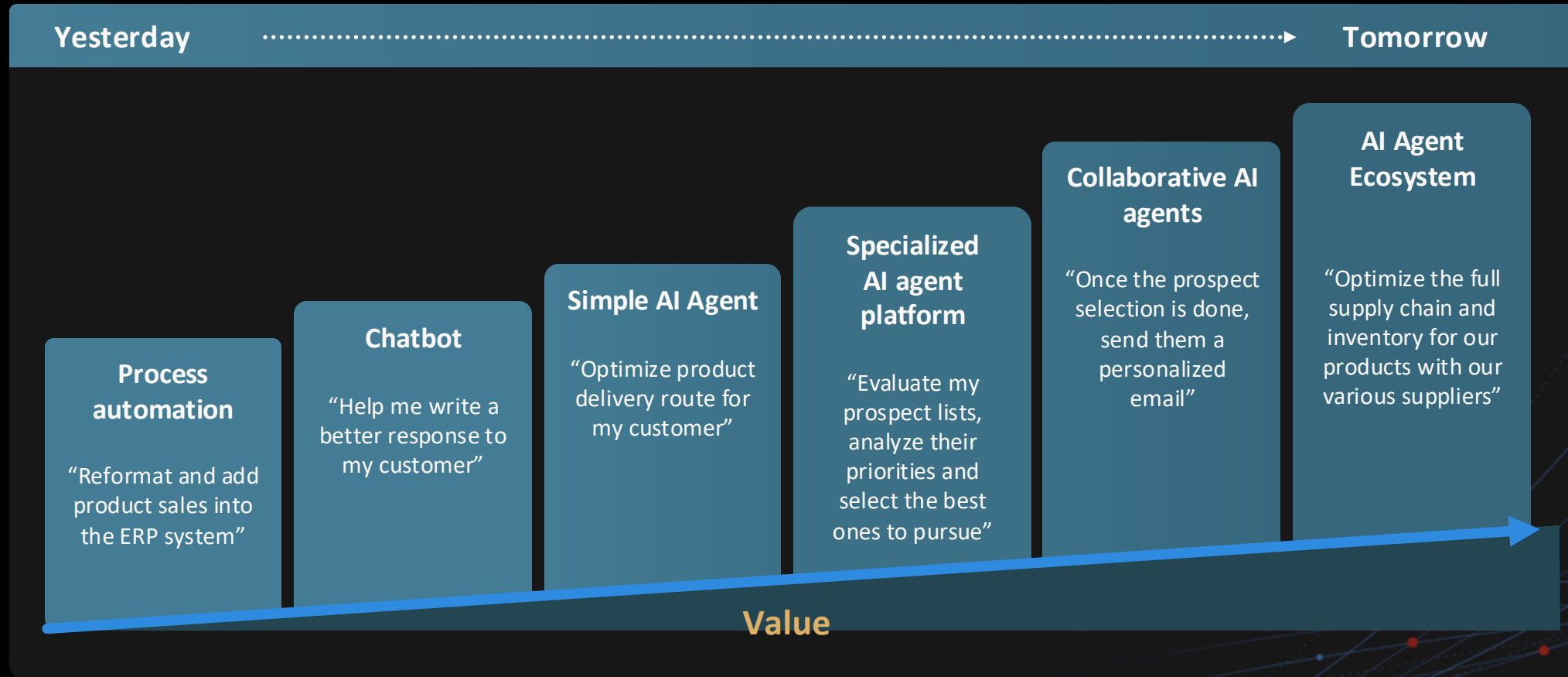
# Safe harbor statement

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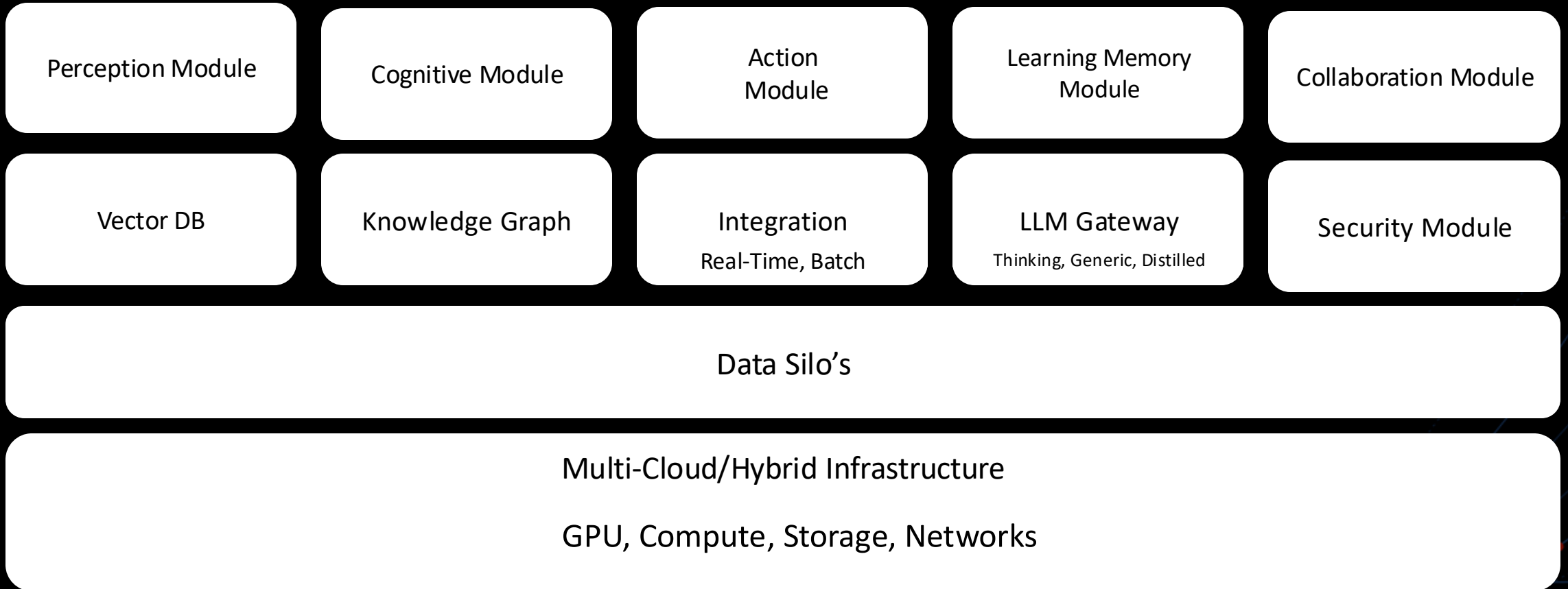




# The shift from reactive AI models to autonomous, AI-driven agents is happening



# Enterprise Agentic AI Platform – Building Blocks



# Oracle provides choice

Agents how you want them, where you want them

Build agents  
from scratch

Build agents with  
ready-made tools

Agents built into  
your applications



GPUs

RDMA networking

Open source tools and frameworks

OCI AI Agent Platform

RAG tool

SQL tool

Code Assist

Data Science

50+ AI agents across the Fusion Application Suite

Functional agents

Supervisory agents

Utility agents

State-of-the-art  
foundation models



Meta

Gemini

cohere

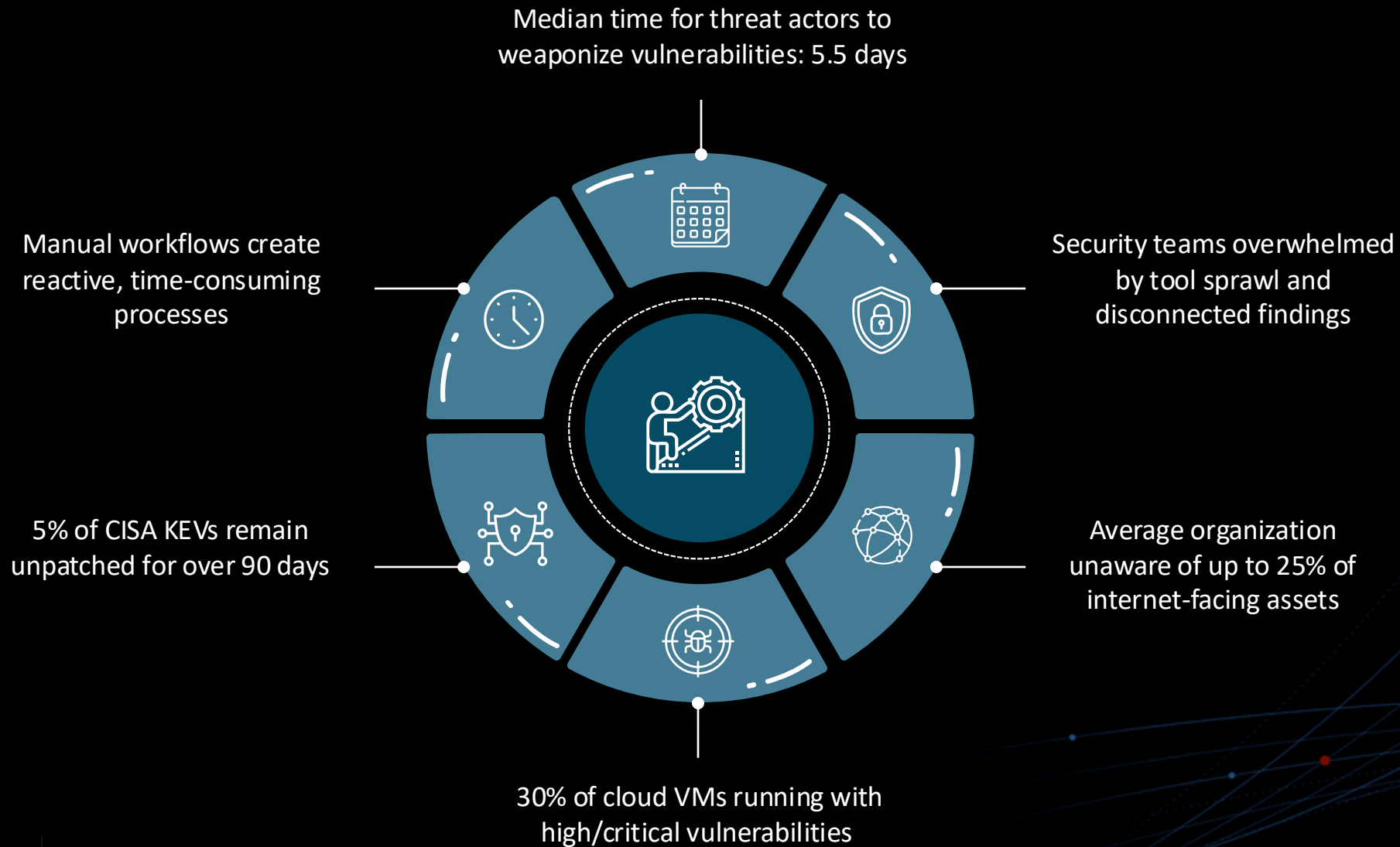
Oracle AI Data Platform

Integrations , Apache Spark, **MultiCloud Oracle 23ai**, Catalog of Catalogs,  
Knowledge Graph, Vector DB, Data Lakehouse, Agent Flow

# Let's delve deeper...



# Current Vulnerability Management Challenges



# What is Agentic AI?

AI systems designed to function as autonomous agents capable of planning, decision-making, and executing complex workflows with minimal human oversight

- ✓ Contextual awareness and multi-step reasoning
- ✓ Goal-driven behavior beyond reactive tasks
- ✓ Self-orchestrating capabilities at machine scale
- ✓ Autonomous identification, prioritization, and remediation



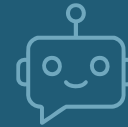


# Qualys Agentic AI Solution

## 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



# Three Foundational Capabilities



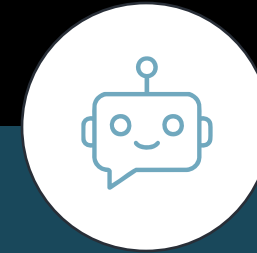
## Natural Language Query (NLQ)

- Democratized access to complex security datasets
- Plain-language interface for technical and non-technical users



## Intelligent Decision Support

- Self-learning analytical engine
- Contextual risk evaluation based on business impact



## Autonomous Response

- Real-time threat detection and remediation
- Reduced Mean Time to Resolution/Remediation (MTTR)



# Agentic AI Architecture Overview

## Key Components

- Global MCP Server (entry point)
- Centralized Orchestrator/Coordinator Agent
- Planner/Router Agent
- Module-specific agents: MCP Server, Planner, Data, Action, Helper

## Workflow

Trigger ► Route ► Orchestrate ► Plan ► Execute ► Finalize

## Architectural Attributes

Modularity



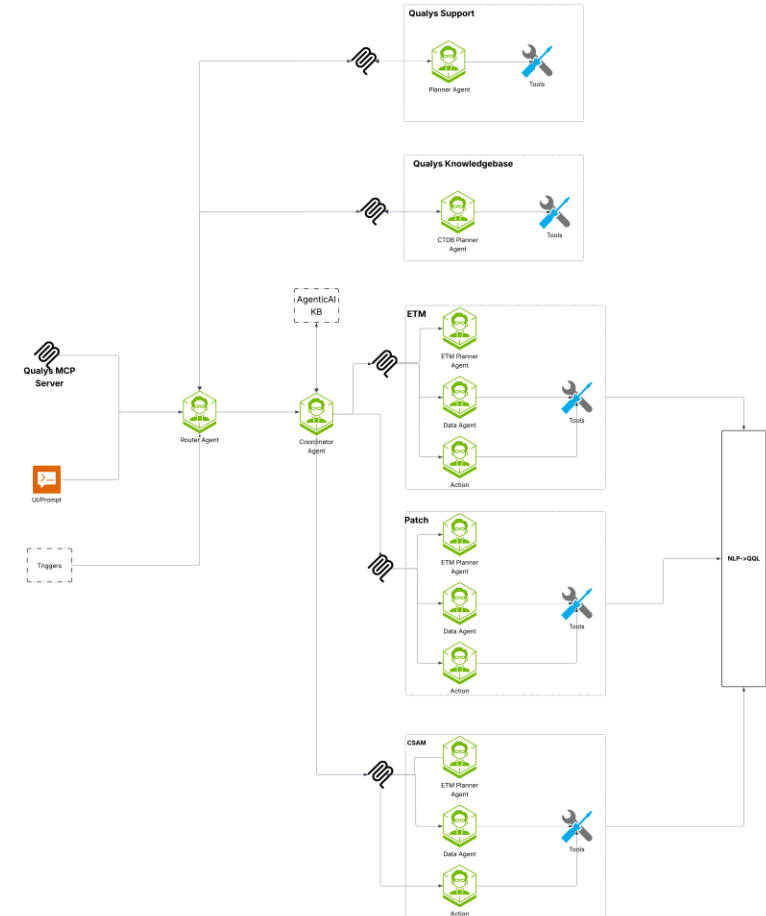
Security (JWT)



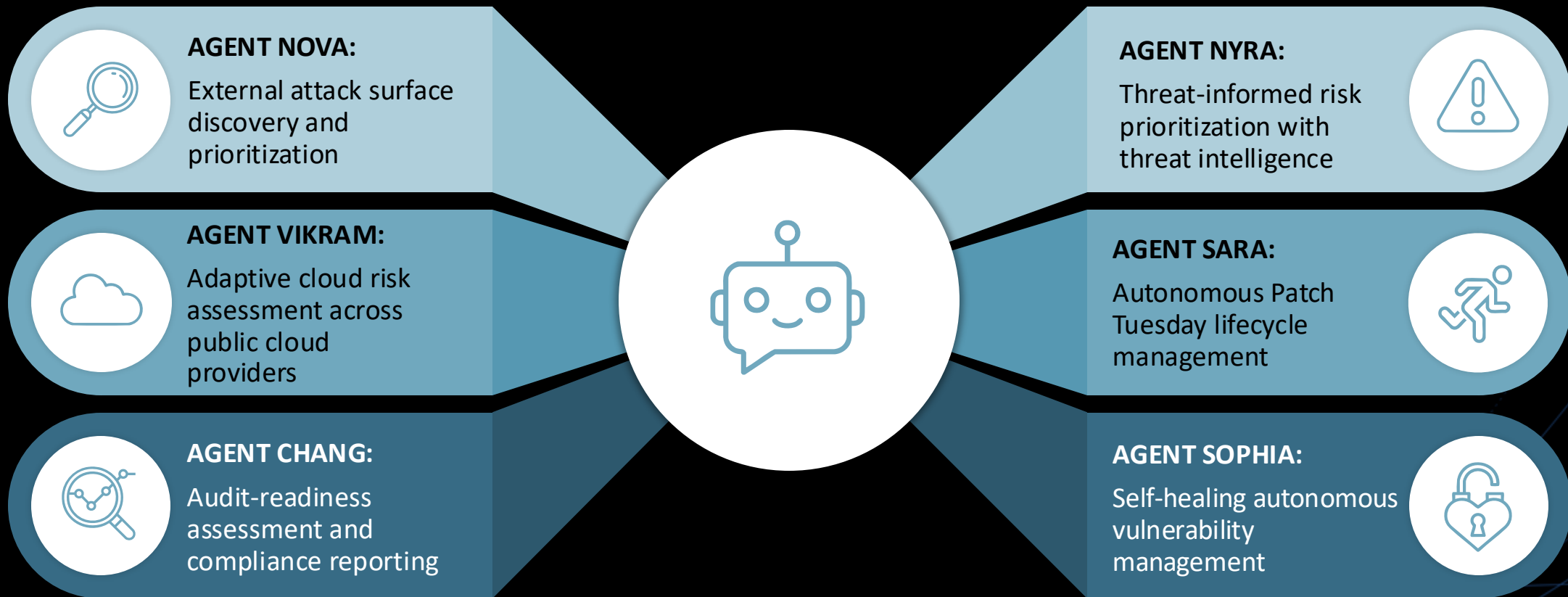
Extensibility



Qualys Agentic AI Architecture Diagram



# Specialized Cyber Risk Agents





# 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)



# Getting Started with Agentic AI



## ASSESSMENT AND PLANNING

- Evaluate current vulnerability management maturity
- Identify high-impact use cases for agent deployment



## AGENT DEPLOYMENT

- Start with pre-built agents from marketplace
- Use no-code builder for custom agents



## INTEGRATION & OPTIMIZATION

- Integrate with existing SIEM/SOAR tools
- Continuous learning and adaptation



# The Future of Autonomous Cybersecurity

## Key Takeaways

- ✓ Agentic AI transforms vulnerability management from reactive to autonomous
- ✓ Proven architecture with measurable business impact
- ✓ Ready-to-deploy agents for immediate value
- ✓ Scalable platform for future security challenges



# Oracle AI Data Platform

Accelerating AI across the enterprise

**Master Catalog:** Simplified governance for the entire data estate, including AI and Analytics assets

- Single catalog for data & AI assets
- Role based access control (RBAC)
- Lineage & data quality

**AI powered developer experience:** Build data and AI Apps, orchestrate pipelines and accelerate prototypes into production.

- Single pane of glass for all data roles
- AI Code Assist

**Unify Enterprise Data for AI**

**Unified Data:** A complete connected view of all data from internal apps to external sources like suppliers and partners

- Medallion architecture
- Open data formats
- Pre-built connectors

**Accelerate AI Development**

**AI Models and Agents:** Accelerate the creation of intelligent, enterprise-ready AI Apps.

- Foundational models
- Custom model libraries
- AI Agent flow frameworks

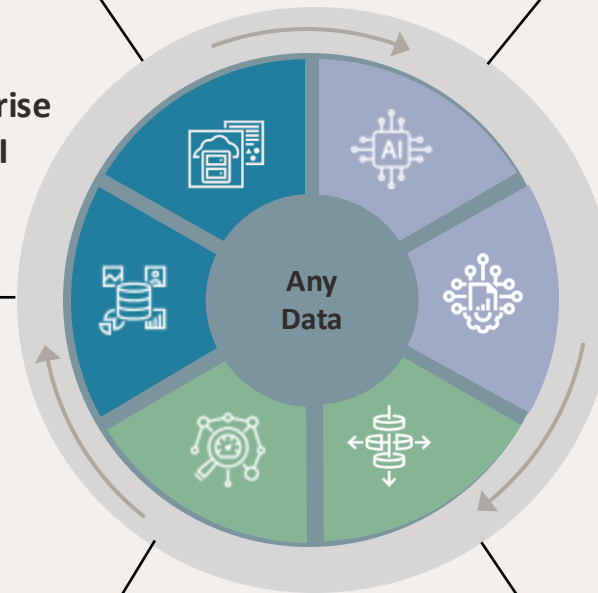
**Innovate with AI at scale**

**High performance data processing at scale:** Open-source flexibility and enterprise-grade proprietary technologies

- Oracle + Open-Source engines
- Multi-development language support

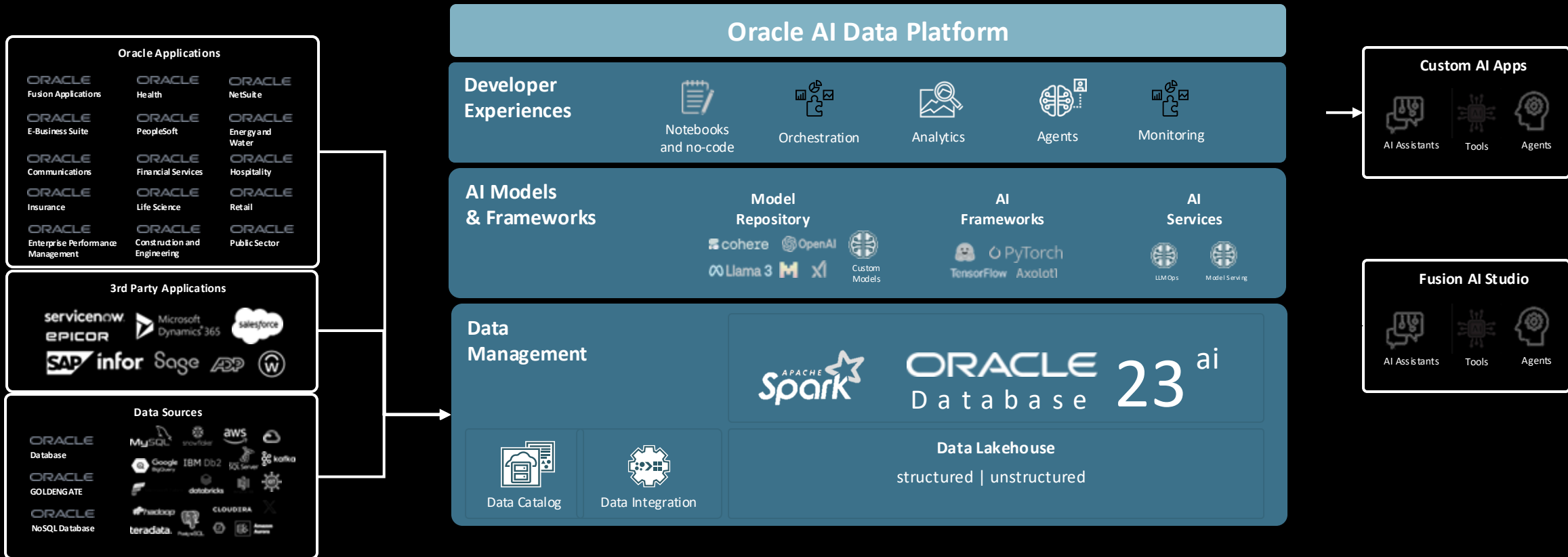
**Business Apps and ecosystem Integrated:** Native interoperability with Oracle and leading 3<sup>rd</sup> party services.

- Database and Applications
- Native GoldenGate and FDI integration
- Orchestrate with Fusion AI Studio





# Oracle AI Data Platform



# Unify Enterprise Data for AI

Seamless access to Oracle Application Data, built in governance and lineage, and unified lakehouse architecture for all data types

## Accelerate AI App Dev

A single pain of glass and AI tooling for building and deploying custom AI Apps and agents

## Innovate with AI at Scale

## Leading pricing performance and cross-cloud agent orchestration



# Oracle AI for Data is fully Open

We integrate with all the leading LLMs, embedding models, development tool chains, agentic frameworks, etc.



OCI  
Generative AI



Cohere



OpenAI



Google



Anthropic



Meta



Grok



Hugging  
Face



Microsoft



Amazon  
Bedrock



Mistral AI



Jina AI



Qwen



LAION



LangChain



ONNX



LangGraph



Pytorch



Ollama



Haystack



TensorFlow



Qualys.

De-risk Your Business

You can use your preferred models and tools

# Executive Summary

Oracle AI Data Platform provides Apache Spark and Oracle 23ai as an Engineered Data Platform

Oracle 23ai Multi-Cloud Database delivers key features required to design your AI Strategy

- Knowledge Graph
- Vector Search
- Support for Multi Datatypes (Json, Spatial and Structured)
- In Database Machine learning and AI
- Multicloud options(OCI, AWS, GCP and Azure)
- Applied AI Studio

Oracle Integration Solutions

- Oracle Integration Cloud (Zero-ETL and OOB connectors to 450 data sources)
- Golden Gate (1000+ OOB connectors for Data Replication)

Oracle GenAI, Agent and Data Science service provides

- LLM Models
- Out of box tools(RAG and NL2SQL)
- Agent development Kit
- BYOM models from Hugging Face

