

ORACLE
Data Deep Dive
at AI World Tour

Real-Time AI Everywhere: Deploying Oracle AI Database 26ai on Multicloud

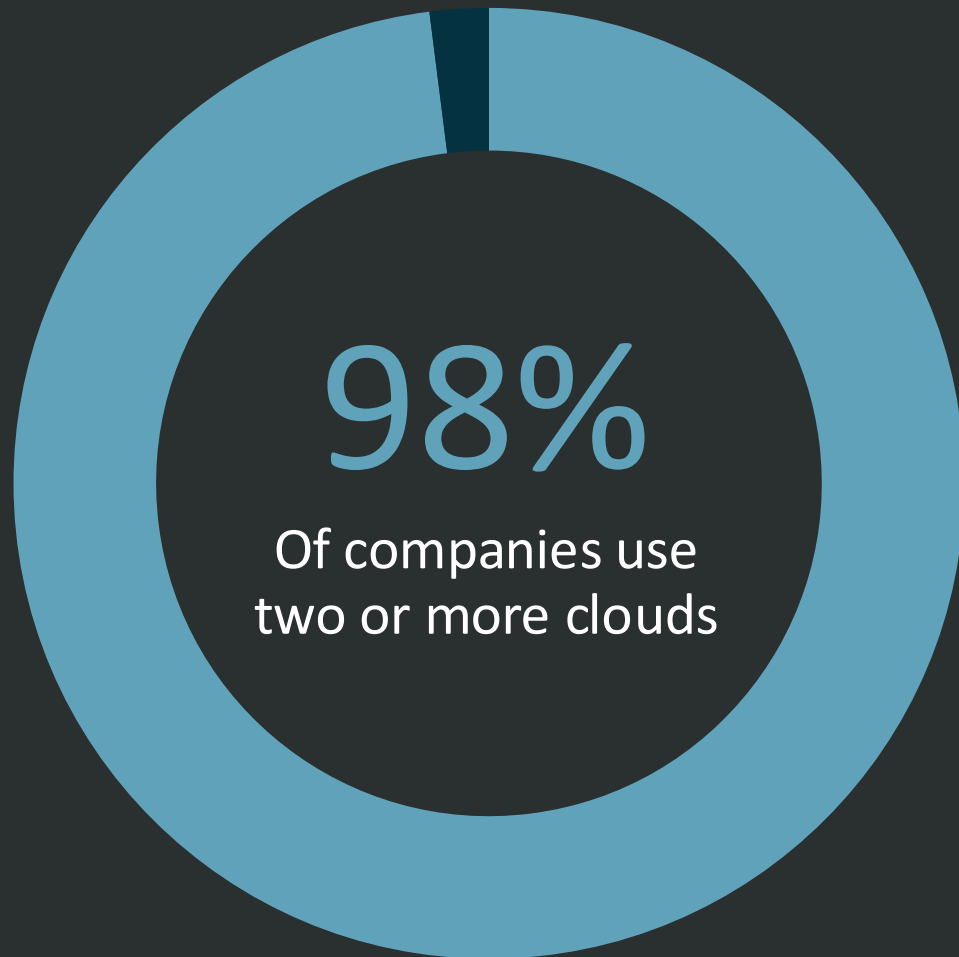
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Senior Vice President

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Senior Principal Product Manager

Oracle Database Mission Critical Technologies

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.

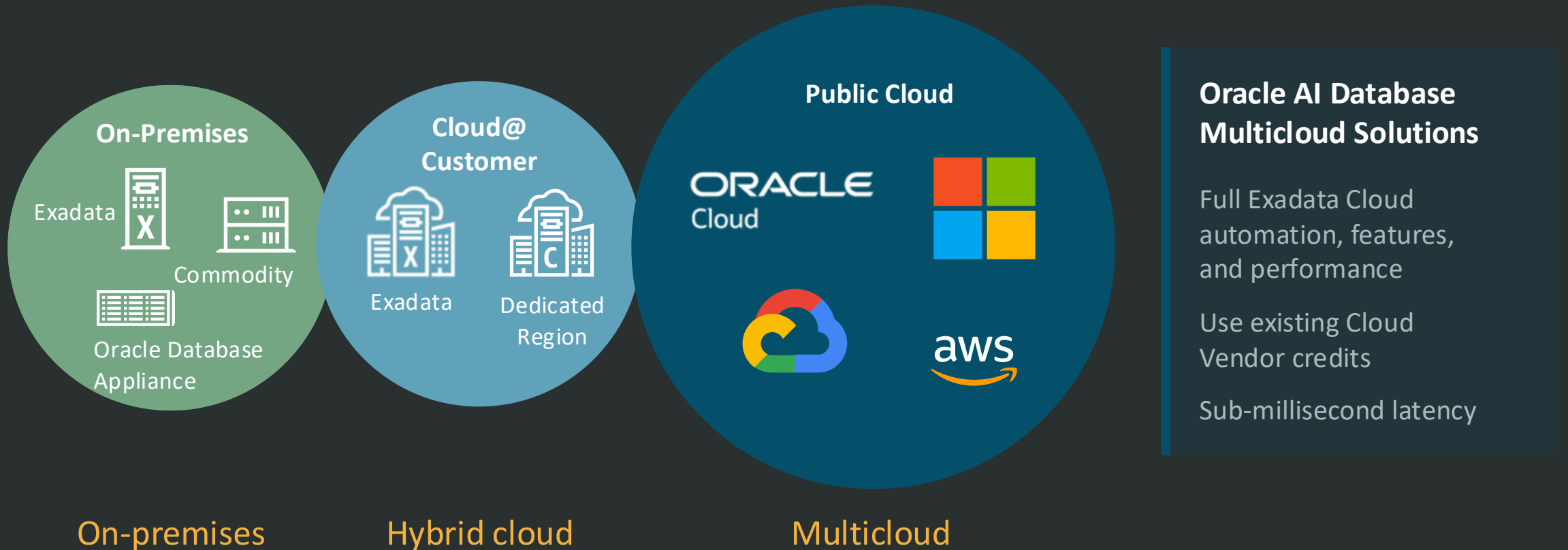


Source: <https://www.oracle.com/cloud/multicloud/mainstream/>

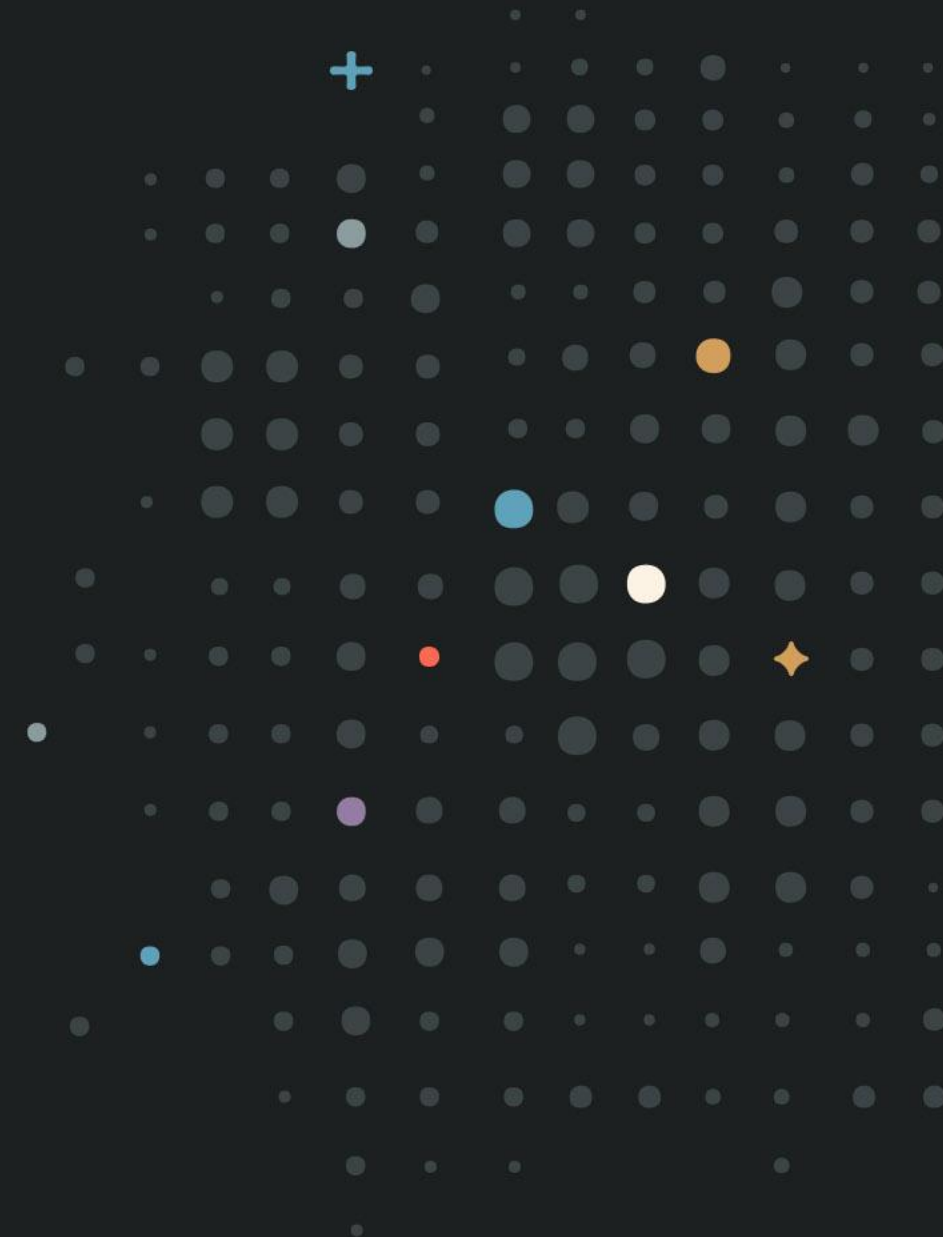
Customers want choices

- ✓ Faster innovation with the best of all clouds
- ✓ Improved business resilience, reduced risks, lower costs
- ✓ Better regulatory compliance and data sovereignty

Now: with Multicloud, deploy Oracle Database Cloud anywhere



Unique Value of Oracle Database Multicloud



Unique: benefits of Oracle Database Multicloud compared to other Cloud deployments



Oracle AI Database 26ai

All modern datatypes and workloads across AI, OLTP, and Analytics, with no restrictions



Exadata

Extreme performance for workloads of any scale and criticality, with data intelligent software and hardware



RAC

High availability and scalability with Real Application Clusters (RAC), integrated with Maximum Availability Architecture (MAA)



Advanced Security

Secure supply chain, quantum-resistant encryption, SQL injection protection, privileged user control, ransomware resilience



Autonomous Database

Extreme ease of use, reduced risks and lower costs with complete automation of database lifecycle

Delivered at Lowest Cost



Unique: Leverage Oracle AI Database 26ai innovations in Multicloud



Data Domains & Annotations

Globally Distributed Database with Raft

APEX AI Application Generator

Operational Property Graphs

Microservice Support

Readable Per-PDB Standby

LLM Integration

MCP Server

Data Safe

Over 30 Machine Learning Models

Private AI

JSON / Relational Duality

AI Vector Search

Lock-Free Reservations

SQL Firewall

Built-in AI Agents for knowledge and diagnostics

True Cache

Agentic RAG

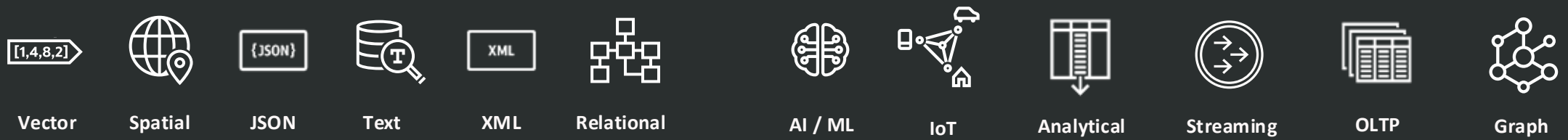
Rolling Updates

External Table Support for Vectors

Integration with LangGraph

Real-time SQL Plan Management





Data Types

Workloads

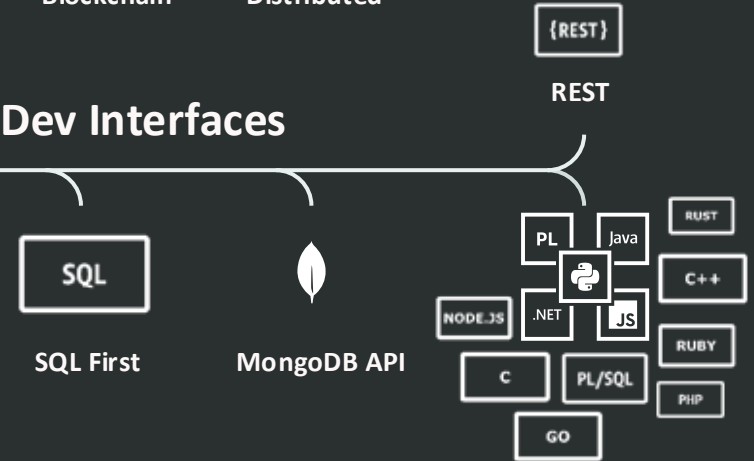


Tools

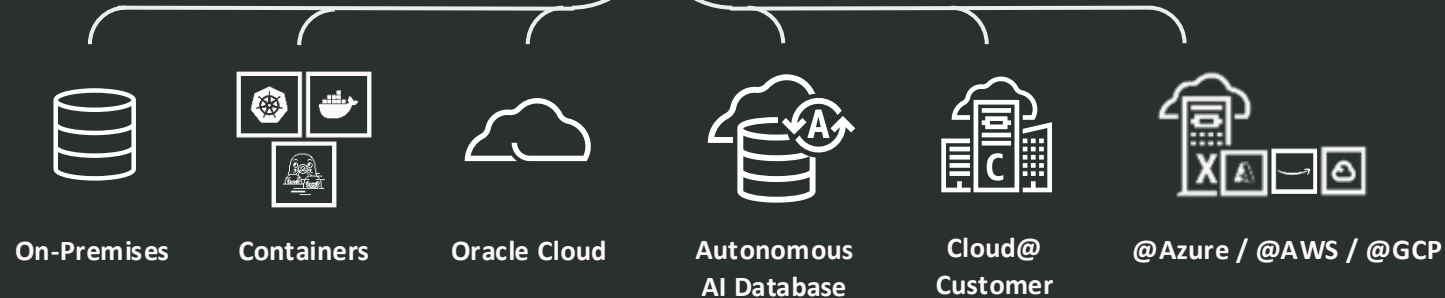


ORACLE 26^{ai} AI Database

Dev Interfaces



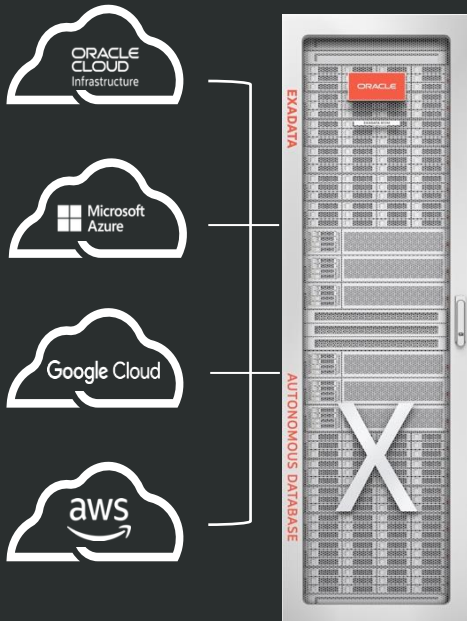
Runs Anywhere



Streamline app development with a converged database

Exadata: Next Generation Intelligent Data Architecture for Multicloud

Extreme performance, scalability, and availability for data and AI workloads, at a low cost



Data optimized hardware

Scale-out, data optimized compute, networking, and storage

Data intelligent software

Unique algorithms deliver extreme performance and efficiency for AI, analytics, and mission-critical apps at any scale

Engineered to run everywhere

On-premises, Cloud@Customer, Oracle Cloud, and multicloud

Unique: Exadata extreme performance, now available in every leading cloud

			
 Oracle Database @OCI	 Oracle Database @Azure	 Oracle Database @Google Cloud	 Oracle Database @AWS

Co-locate apps and Exadata for the highest performance
Get full Oracle Database and Exadata functionality and compatibility
No app changes, zero downtime migration

Unique: Exadata enhances all aspects of AI-driven modern workloads

OLTP



Much higher performance at a lower cost for all databases

Analytics



Much faster complex queries on larger data volumes at a lower cost

AI



Combined with Oracle Database 26ai, mission-critical AI at any scale

Efficiency



Extreme efficiency: performance, utilization & administration

Modern Apps



Enhanced support for modern data types and workloads

Resiliency



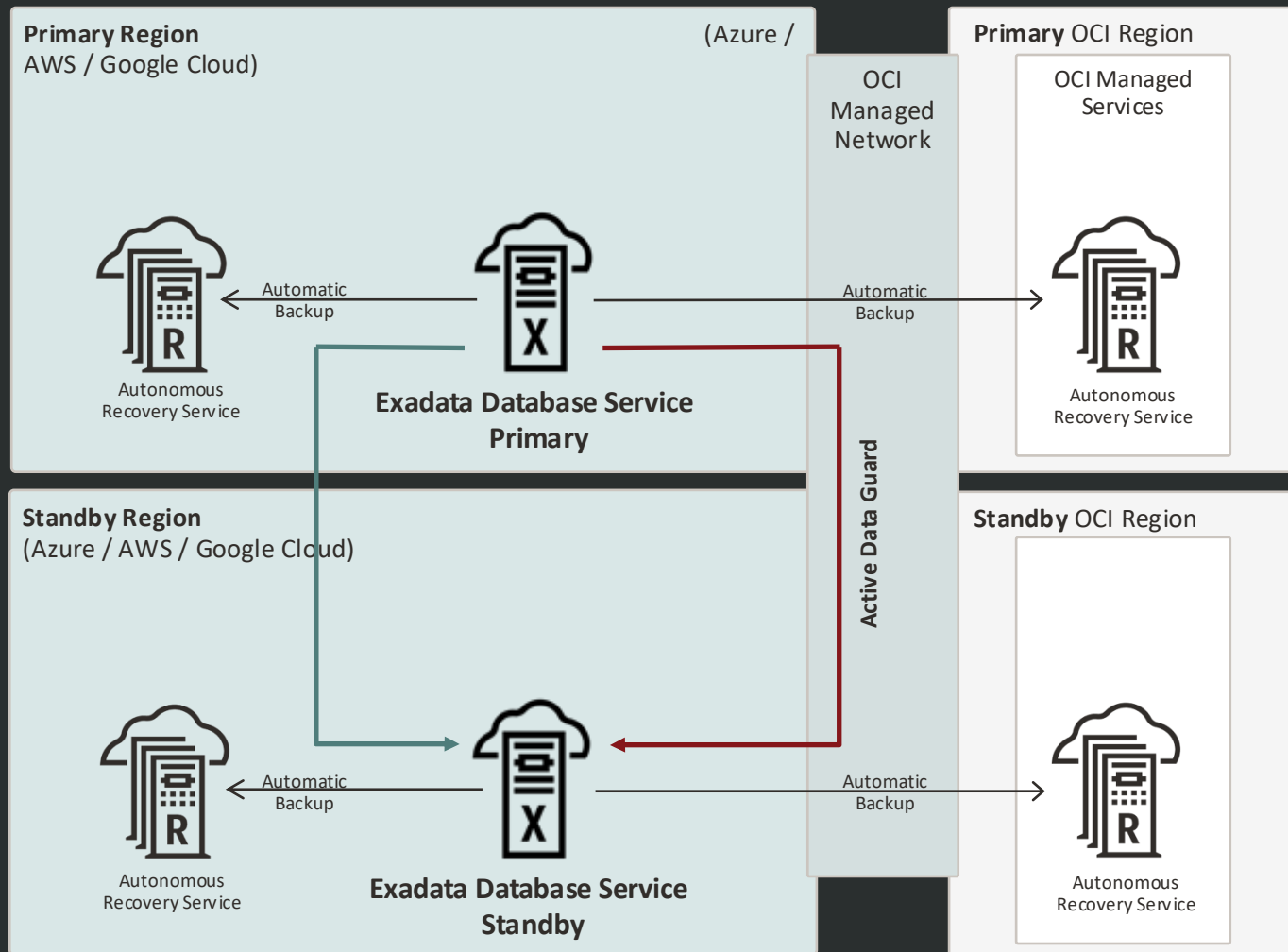
Integrated full-stack security and availability to reduce risk and costs

Unique: Maximum Availability Architecture (MAA) in Multicloud

Fully automated, built-in resilience for continuous data access



GOLD



- Built-in Exadata redundancy and fault tolerance
- Active Data Guard for disaster and corruption protection
 - Offload backups and reporting to standby
- Application Continuity with Oracle RAC & Active Data Guard
 - Minimal downtime for upgrades and migrations
- Zero data loss with local/remote Autonomous Recovery Service

Unique: Zero Data Loss Autonomous Recovery Service (ZRCV)

Intelligent data protection for Oracle databases in OCI, Multicloud & On-premises

Zero Data Loss Recovery

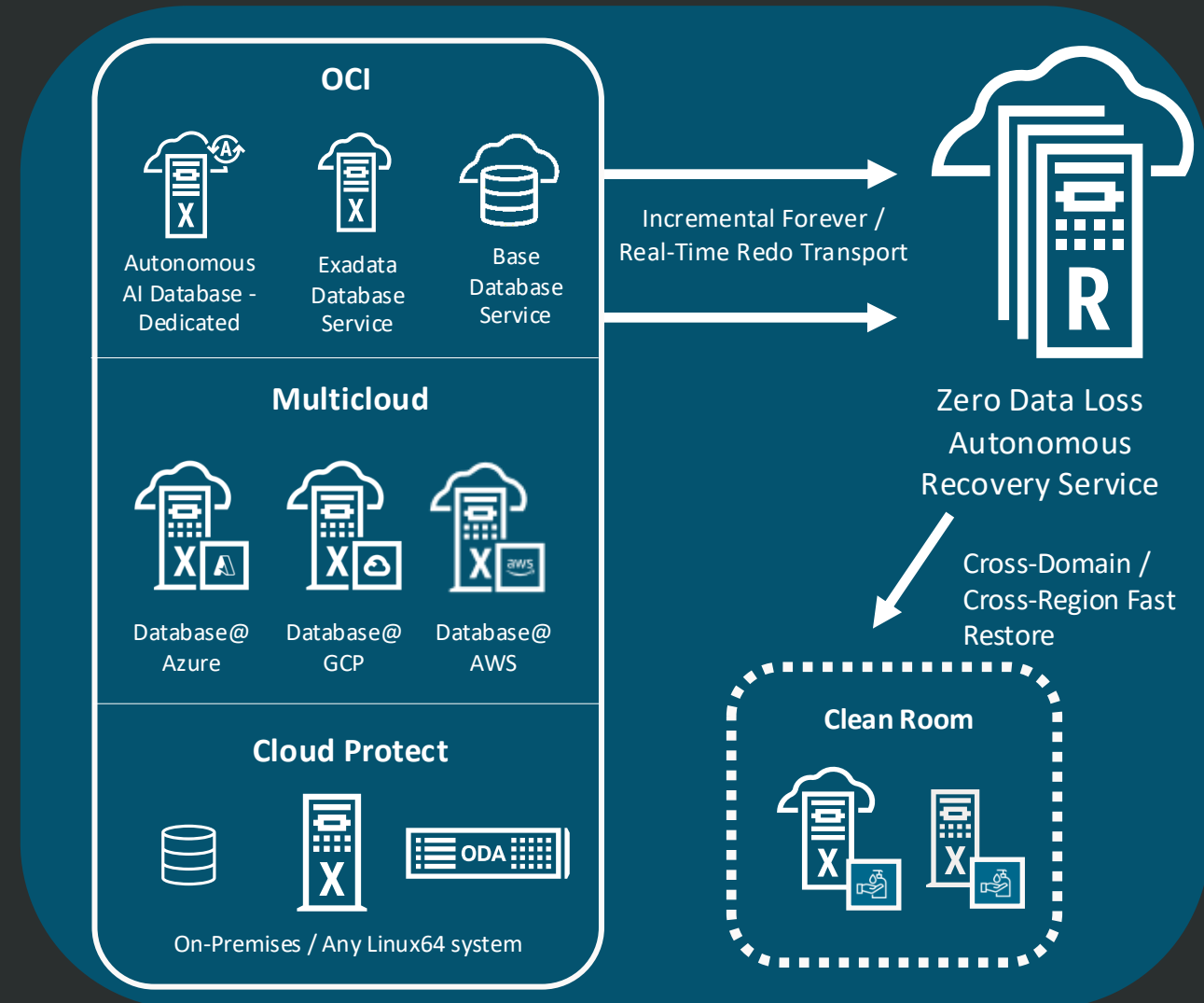
- Real-time transaction protection
- Continuous recovery validation

Fast, Low-Impact Backup and Recovery

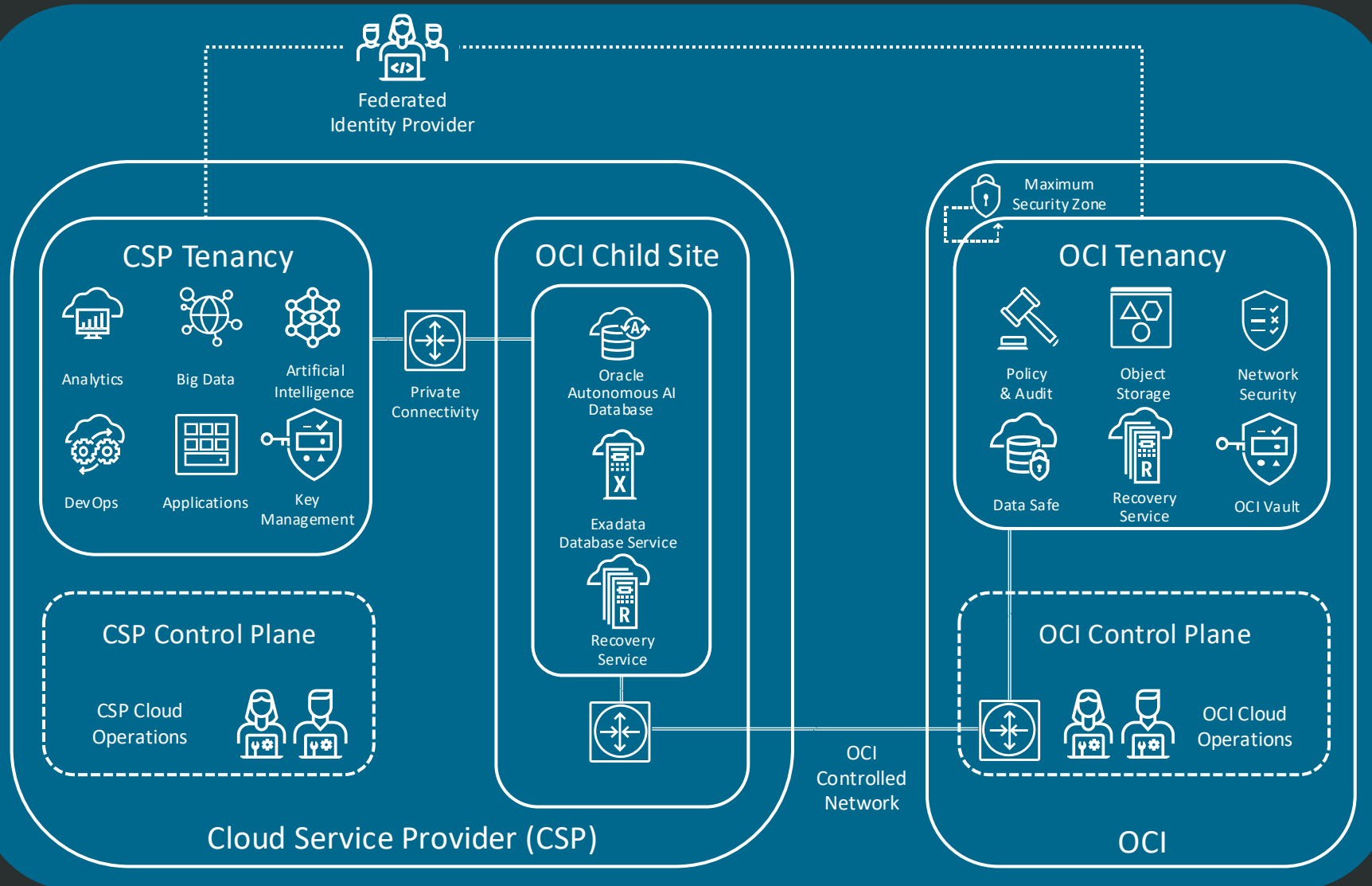
- Space-efficient incremental forever
- One-step recovery without incremental apply

Database-aware Ransomware Resiliency

- Data always encrypted
- Immutable backups with retention lock
- Separation of duties and granular access control
- Logical airgap between the customer and Oracle Cloud Operations tenancies
- Cross-domain and cross-region clean room support



Unique: Integrated defense-in-depth security in Multicloud



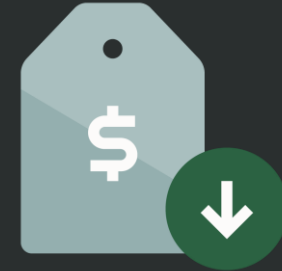
- Authentication via Federated Identity Provider
- Low-latency private connectivity between applications and Oracle Database services
- Database service lifecycle management and OCI service access via OCI controlled network
- Database data always encrypted
- Store and manage the TDE master key in Oracle Wallet (default), OCI Vault, Oracle Key Vault, Azure Key Vault, or Google Cloud Key Management Service
- Recovery Service for ransomware resiliency
- Data Safe for management and monitoring of data security controls through a unified dashboard

Unique: Autonomous AI Database delivers the best data experience
With the **lowest total cost of ownership**



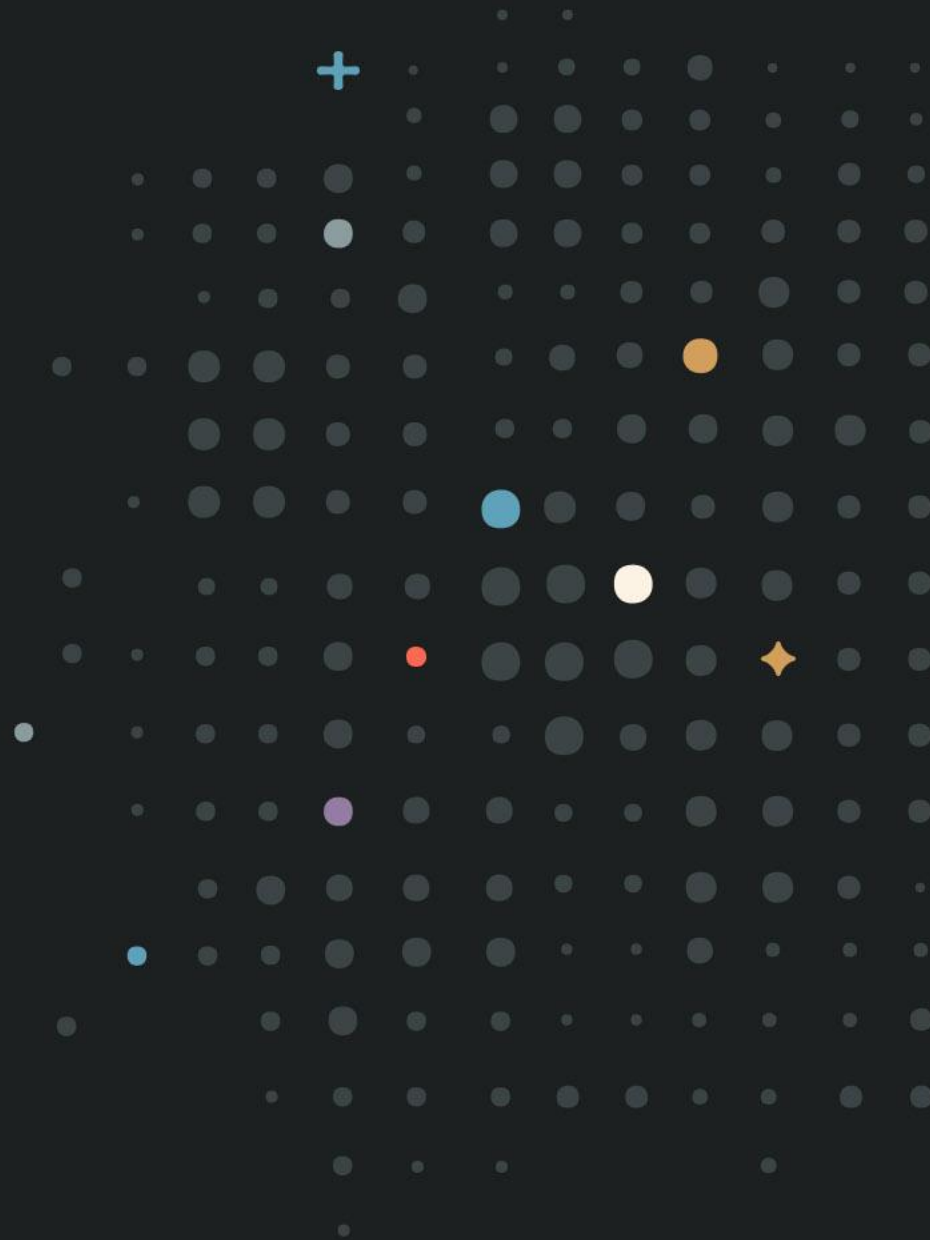
Unique attributes that lower costs for Oracle AI Database on Multicloud

- Lower **deployment** costs
 - Built and operated by the Oracle Database engineering team
 - No extra cost for high-performance IOPS
 - Support Rewards reduce support costs for on-premises licenses
- Lower **subscription** costs
 - Lowest cost for Oracle Database License-Included
 - All Database features included with the License-Included Option
 - Online up and down CPU core scaling to align license cost to workload requirements
 - Lowest cost to bring your own license (BYOL)
 - Includes several database features and options at no extra cost
 - Requires half the Oracle Database licenses compared to other cloud deployment methods
 - 1 EE License per 4 vCPUS and 1 SE license per 8 vCPUs



- 
- ✓ Transparent Data Encryption (TDE)
 - ✓ Real Application Testing
 - ✓ Data Safe
 - ✓ Diagnostics Pack
 - ✓ Tuning Pack
 - ✓ Data Masking and Subsetting Pack
 - ✓ GoldenGate with migration automation to cloud
 - ✓ Exadata Columnar Flash Cache

Multicloud Experience



Migrating to Multicloud with Oracle Zero Downtime Migration (ZDM)

Simple, comprehensive solution to migrate Oracle databases across platforms with no downtime

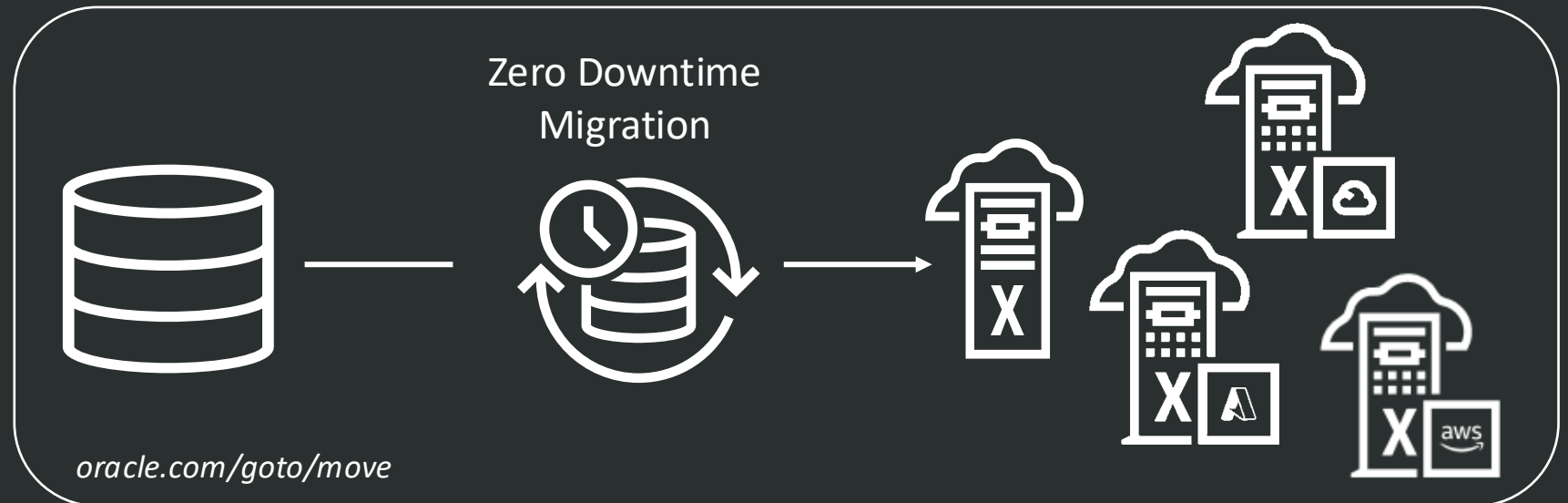
Oracle Database Sources

- On-premises deployments
- Cloud deployments (hybrid, public cloud)
- Oracle Database Enterprise & Standard Editions

Oracle Cloud / Multicloud Targets

- Oracle Autonomous AI Database
- Oracle Exadata Database Service
- Oracle Base Database Service

- ✓ Pre-migration checks
- ✓ Data transfer
- ✓ Ongoing synchronization
- ✓ Switchover
- ✓ Post-migration validation



Integrated user experience for provisioning: example Azure

Microsoft Azure

Search resources, services, and docs (G+/)

Home > Oracle Database@Azure | Oracle Exadata Database Service

Create Oracle Exadata Infrastructure

Basics Configuration Maintenance Consent Tags

Project details

Select the subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.

Subscription * ⓘ omcpmdbm2

Resource group * ⓘ rg-dbm_pm_exa-east
[Create new](#)

Instance details

Name * ⓘ exainfra1

Region * ⓘ East US

Availability zone * ⓘ Zone 3

Previous Next Review + create

Microsoft Azure

Search resources, services, and docs (G+/)

Home > Oracle Database@Azure | Oracle Exadata Database Service

Create Oracle Exadata Infrastructure

Basics Configuration Maintenance Consent Tags

Project details

Select the system model and starter shape. Starter shape initializes and expands the storage independent of the compute nodes.

Exadata infrastructure model * ⓘ X11M

Database server type * ⓘ X11M

Storage server type * ⓘ X11M-HC

Database servers * ⓘ

Storage servers * ⓘ

ECPU * ⓘ 1520

Storage ⓘ 189 TB

Previous Next Review + create

Microsoft Azure

Search resources, services, and docs (G+/)

Home > Oracle Database@Azure | Oracle Exadata Database Service on Dedicated Infrastructure

Create Oracle Exadata VM Cluster

Project details

Select the subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.

Subscription * ⓘ omcpmdbm2

Resource group * ⓘ rg-dbm_pm_exa-east
[Create new](#)

VM Cluster details

Name * ⓘ VMCluster1 ✓

Region * ⓘ East US

Cluster name ⓘ clust01 ✓

Select an Exadata infrastructure from another subscription ⓘ

Exadata infrastructure * ⓘ exainfra1

License type * ⓘ License included

Time zone * ⓘ UTC

Previous Next Review + create

Integrated user experience for provisioning: example Google Cloud

Google Cloud

omcpmpoc2

Search (/) for resources, docs, prod

Oracle Database@Google Cloud / Exadata Database Service

Create Exadata Infrastructure

Instance details

Infrastructure display name *

exainfra1

Infrastructure ID *

exainfra1

Region *

us-east4

Region choice is permanent

Oracle Cloud account

omcpmpoc2

Machine configuration

Exadata Infrastructure model *

Exadata.X11M

Database server type

X11M

760 ECPUs, 1.5 TB memory per server

Storage server type

X11M-HC

80TB storage per server

Database servers *

2

2 - 32

Storage servers *

3

3 - 64

ECPUs

1,520

Storage size

189 TB

CREATE

CANCEL

Google Cloud

omcpmpoc2

Search (/) for resources, docs, prod

Oracle Database@Google Cloud / Exadata Database Service

Create Exadata VM cluster

Exadata Infrastructure

Select your Exadata Infrastructure. Infrastructure may be shared across projects. If you can't see a resource, contact your administrator.

Infrastructure project

omcpmpoc2

SELECT

Oracle Exadata Infrastructure *

demo-Infra2

Basic details

Display name *

exavm1

VM Cluster ID *

exavm1

Cluster name (optional)

exavm1

Select version

Oracle Grid Infrastructure version *

23.0.0.0

Exadata guest version

CREATE

CANCEL

Google Cloud

omcpmpoc2

Search (/) for resources, docs, prod

Oracle Database@Google Cloud / Exadata Database Service

Create Exadata VM Cluster

VM cluster configuration

DB servers for VM placement

2 (dbServer-1, dbServer-2)

CHANGE DB SERVERS

Resource allocation per VM

OCPU count per VM *

2

0 - 126

Total requested OCPU count

4

Memory per VM

30

30 GB - 1,390 GB

Total requested memory

60 GB

Local storage per VM

60

60 GB - 900 GB

Total local storage

120 GB

Exadata storage configuration

Usable Exadata Storage *

2

TB

2 - 100 TB. Specify storage in multiples of 1 TB.

The following storage configuration options cannot be changed after VM cluster creation.

CREATE

CANCEL

20

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Integrated user experience for provisioning: example AWS

 Oracle Database@AWS > Exadata infrastructures

Configure Exadata infrastructure

Choose the Exadata system model and the

Exadata system model

Exadata.X11M

Database server type

X11M
760 ECPUS, 1.5 TB RAM per server

Storage server type

X11M-HC
80 TB per server

 Oracle Database@AWS > Exadata VM clusters

Configure general settings [Info](#)

A VM cluster is a set of tightly coupled virtual machines. You can install Oracle Exadata databases on a VM cluster.

Settings

VM cluster name
Enter a user-friendly name for your VM cluster.

The name must be 1-255 characters, and must start with a letter or underscore, and may contain hyphens (-).

Grid Infrastructure cluster name - optional

The name must be 1-11 characters, must start with a letter or underscore, and may contain hyphens (-).

Time zone

License options
Choose the Oracle license model to apply to the VM cluster.

 Oracle Database@AWS > Exadata VM clusters

Connectivity

ODB network
The list includes only networks in the same AZ.

Host name prefix
Enter a unique host name for the VM cluster.

The host name must not exceed 12 characters and must start with a letter. Valid characters are A-Z, a-z, 0-9, and hyphen (-).

Host domain name
The domain name for the VM cluster. You can't change the host domain name.

You can't change the host domain name. For more information, see DOC (link to show section about using VCN resolver for object storage)

Host and domain name URL
The fully qualified domain name (FQDN) for the VM cluster.

SCAN listener port (TCP/IP) - optional

Permissible range 1024 - 8999. Exceptions: 2484, 6100, 6200, 7060, 7070, 7085, 7879



Oracle multicloud observability and management

Fully automated observability with built-in resilience & no monitoring blind spots

Database Management



- Database & Exadata fleet level monitoring, administration and jobs
- Comprehensive diagnostics and tuning via Performance Hub, SQL Monitoring, Automatic SQL Tuning, AWR Explorer

Ops Insights



- Database & Exadata fleet level analytics
- ML powered capacity forecasting, predictive alerts, Chargeback, SQL insights

Log Analytics



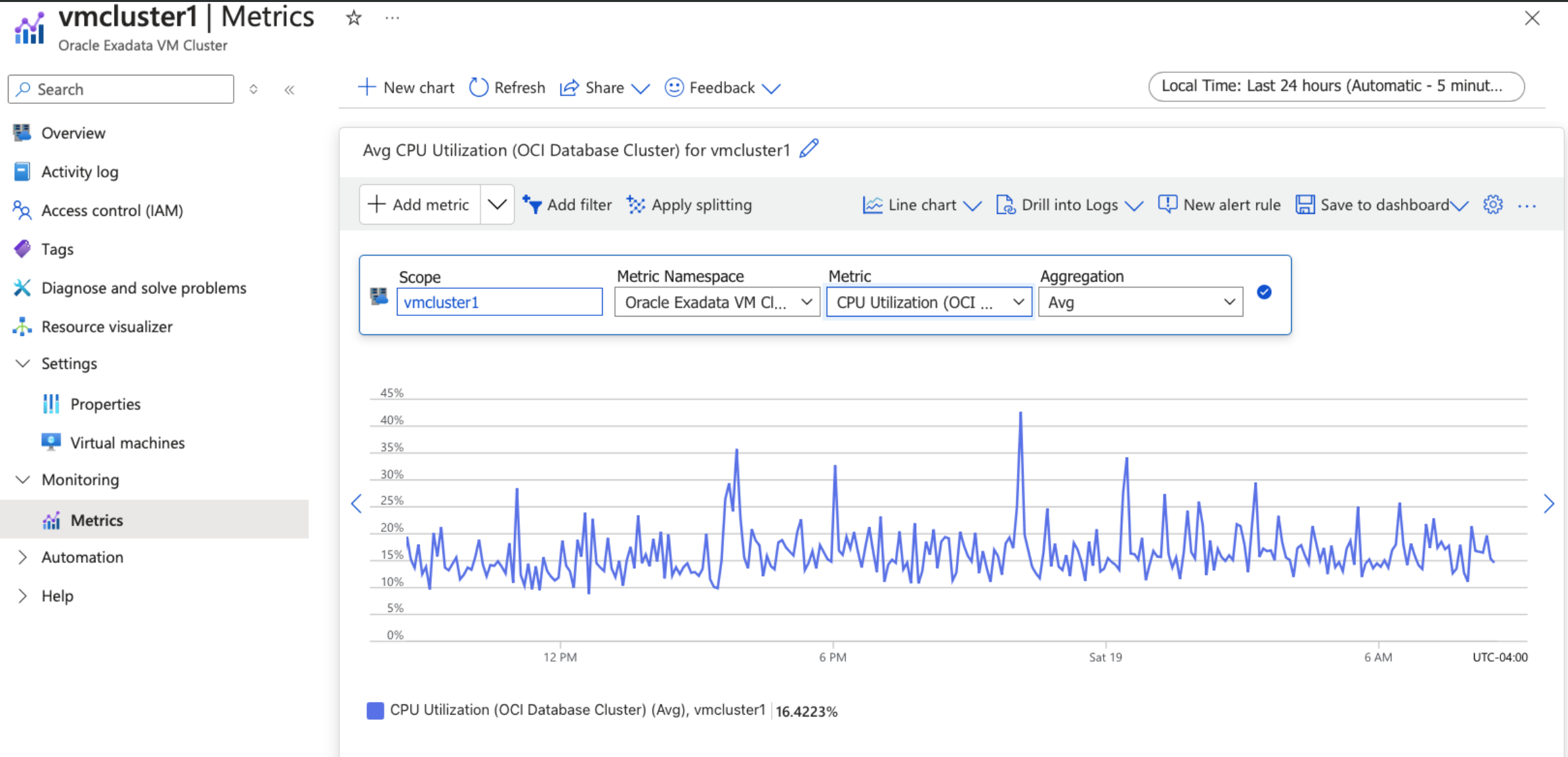
- ML-powered log analysis & exploration, 250+ parsers, log enrichment for Oracle



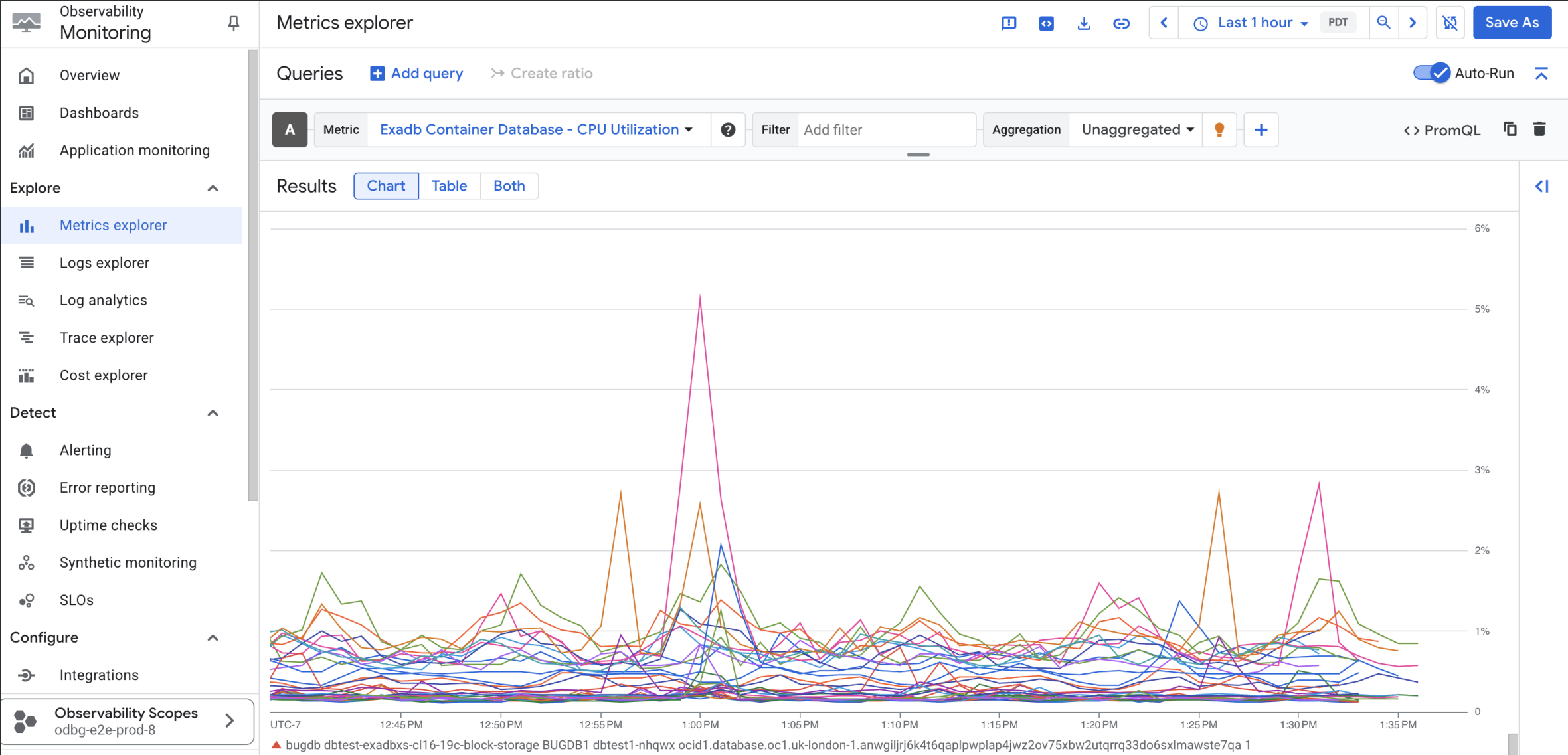
Single pane of glass across multicloud

- ✓ End-to-end observability & consistent operations across hyperscalers
- ✓ GenAI-based troubleshooting
- ✓ Consolidated multi-region dashboards

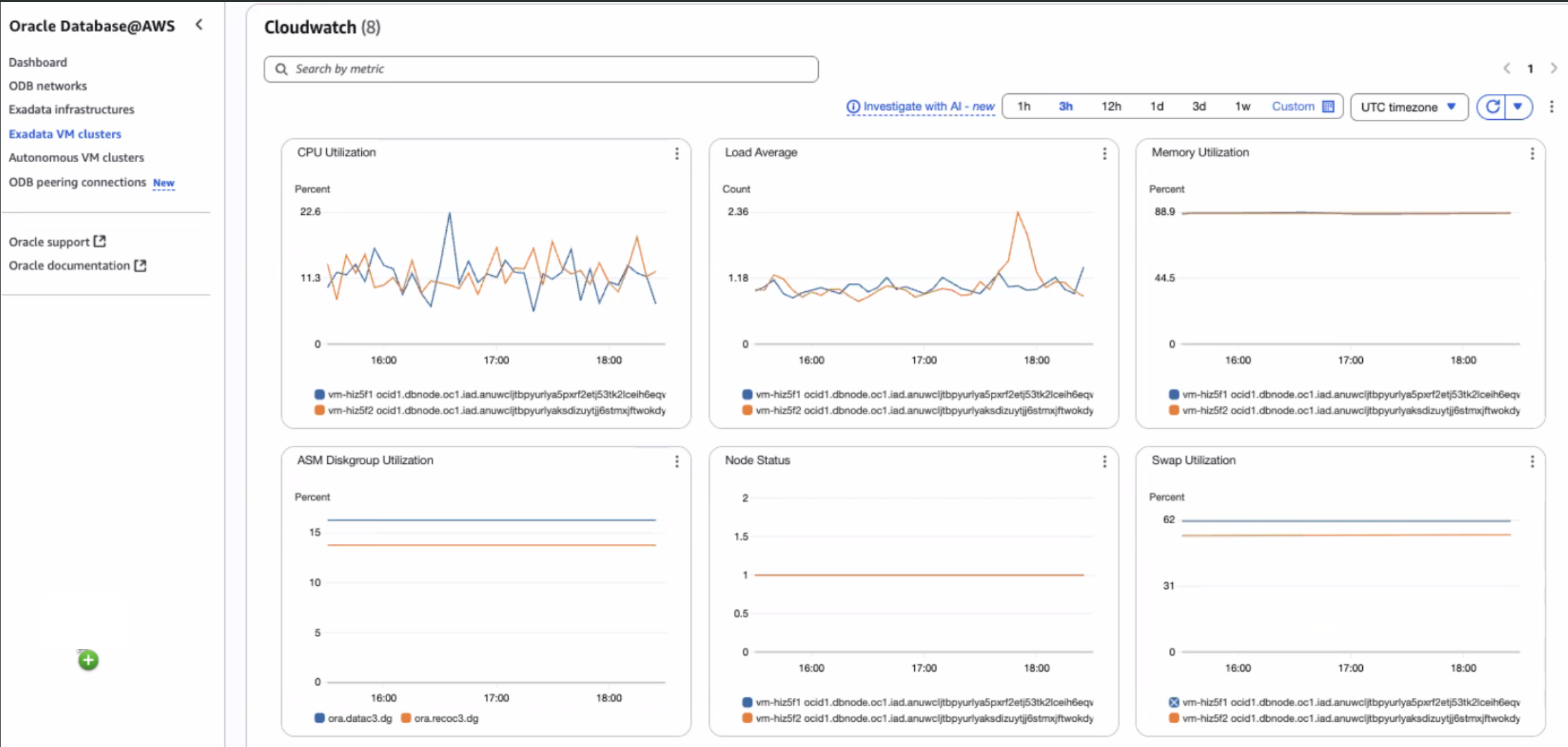
Integrated monitoring: example Azure



Integrated monitoring: example Google Cloud



Integrated monitoring: example AWS



What's New: Key Management for Exadata Database Service on Multicloud



Azure Key Vault (AKV)

Cloud automation to store and manage TDE keys in AKV Standard, AKV Premium, and AKV Managed HSM

Create Database

Encryption
When provisioning a database with Azure Key Vault as the key management, create an identity connector, enable Azure key management, and register the appropriate vaults. [Learn more](#)

Key management
Oracle Wallet

Oracle Wallet

Azure Key Vault



Google Cloud Key Management Service

Cloud automation to store and manage TDE keys in Customer-managed encryption key (CMEK)

Create Database

Encryption
When provisioning a database with GCP customer managed key as the key management, create an identity connector, enable GCP customer managed key management, and register the appropriate key rings. [Learn more](#)

Key management
Oracle Wallet

Oracle Wallet

GCP Customer Managed Encryption Key



AWS Key Management Service

Cloud automation to store and manage TDE keys in AWS Customer Managed Keys using AWS KMS and CloudHSM key stores

Create Database

Encryption
When provisioning a database with AWS Customer Managed Key as the key management, enable AWS key management, and register the appropriate key.

Key management
Oracle Wallet

Oracle Wallet

AWS Customer Managed Key

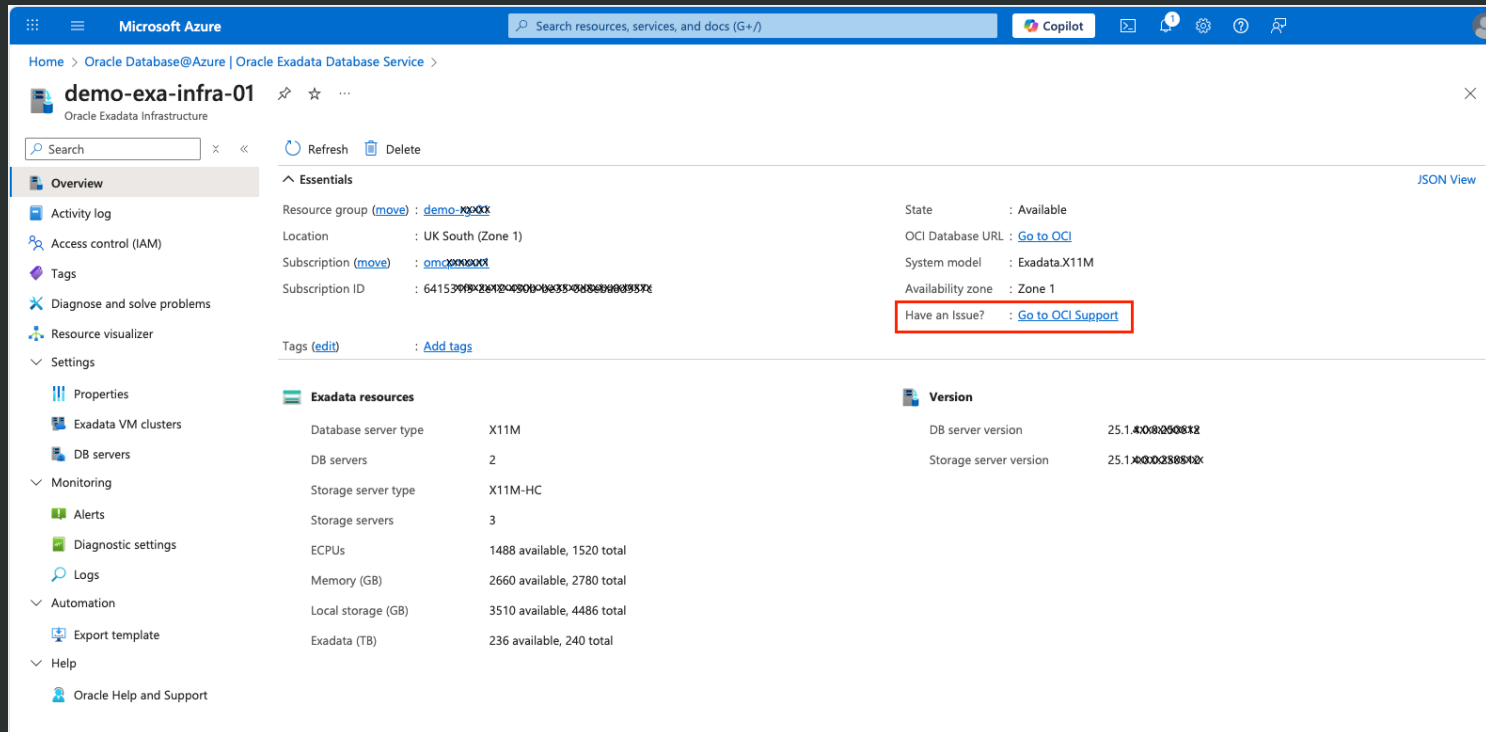
Benefits

- Consistent key management across apps & databases
- Data residency compliance with keys in your cloud of choice
- Seamless integration with native hyperscaler key management



Unified Multicloud support experience: streamline resolution, expert focus

- Oracle Support: first line of support for all Oracle Database@CSP topics
- Contacted through the Multicloud console, e.g. for Azure:



- Leverage CSP Support for all CSP issues, using familiar CSP support portal
- Examples: CSP networking, firewalls, DNS and traffic management, latency management, CSP-specific monitoring or key management, billing

Oracle and CSP Support teams are integrated to provide a collaborative and unified multicloud support experience

- Examples of topics: Database connection and performance, OCI networking, database service capacity, new generation hardware

Simple Multicloud procurement experience: using familiar methodology

Offer Type	Description	Best For	Example Scenarios
Public Offer	Standard, published pricing and configurations available directly through Marketplace	Organizations ready to deploy quickly using standard SKUs	Proof of concept, pilot deployments, predictable workloads
Private Offer	Customized pricing, terms, or configurations negotiated directly with Oracle and CSP	Enterprises with specific performance, licensing, or cost requirements	Large-scale migration, BYOL (Bring Your Own License), multi-region rollouts

- ✓ Seamless integration with familiar CSP services
- ✓ Payment for Oracle Database Multicloud counts toward CSP Cloud commitments
- ✓ Unified billing from CSP
- ✓ Oracle Database@CSP usage can accrue the same Oracle Support Rewards as eligible OCI spend
- ✓ Oracle Database customers can use License Included or Bring Your Own License (BYOL)



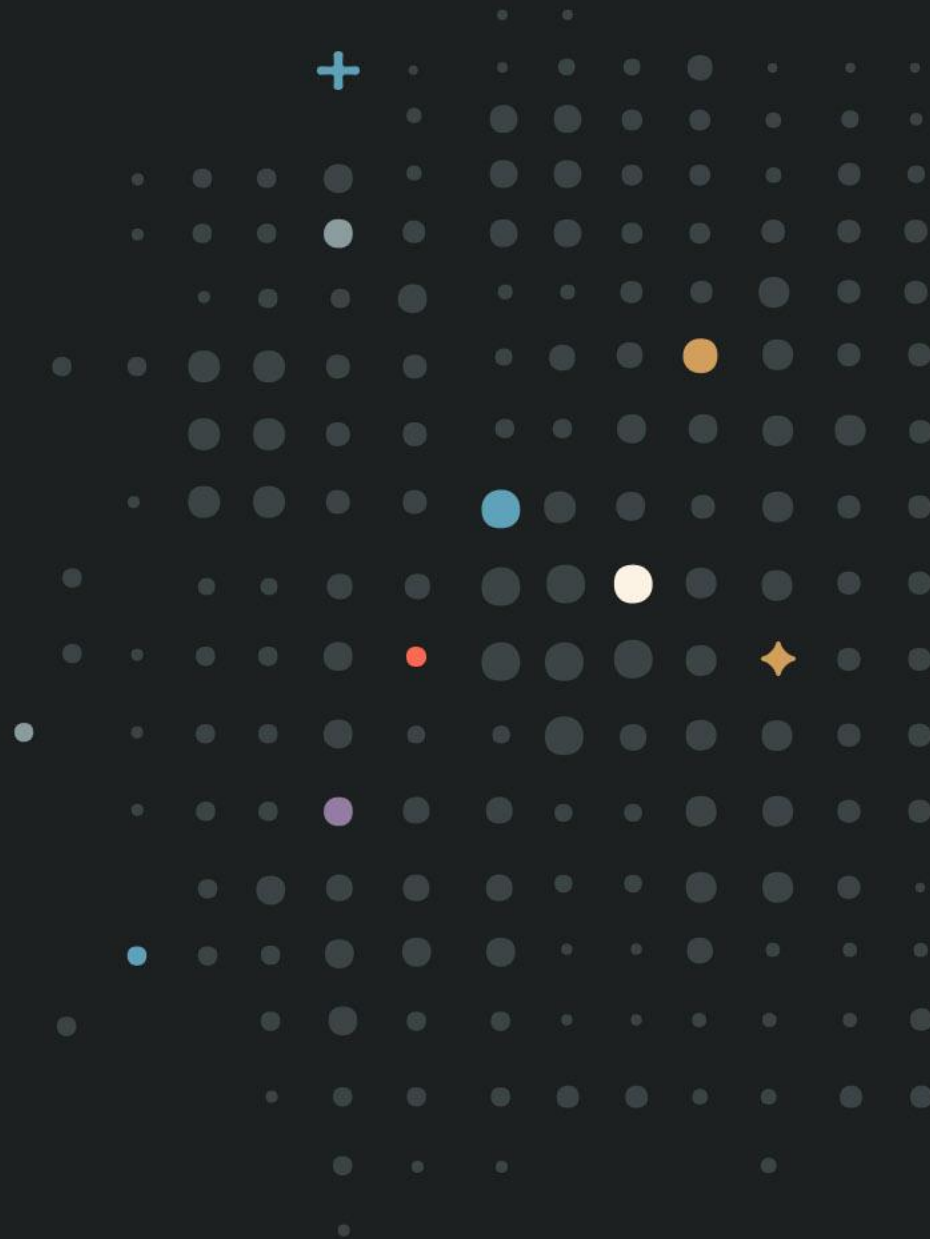
Recently Announced: Multicloud Universal Credits

Unified Cross-Cloud Experience

- 1 A single consumption model across Oracle Database@AWS, Oracle Database@Azure, Oracle Database@Google Cloud, and OCI
- 2 Deploy Oracle AI Database workloads on OCI across any available AWS, Google Cloud, Microsoft Azure, or OCI regions
- 3 Unlock commercial freedom to run Oracle AI Database workloads across multiple clouds — with a consistent database management experience

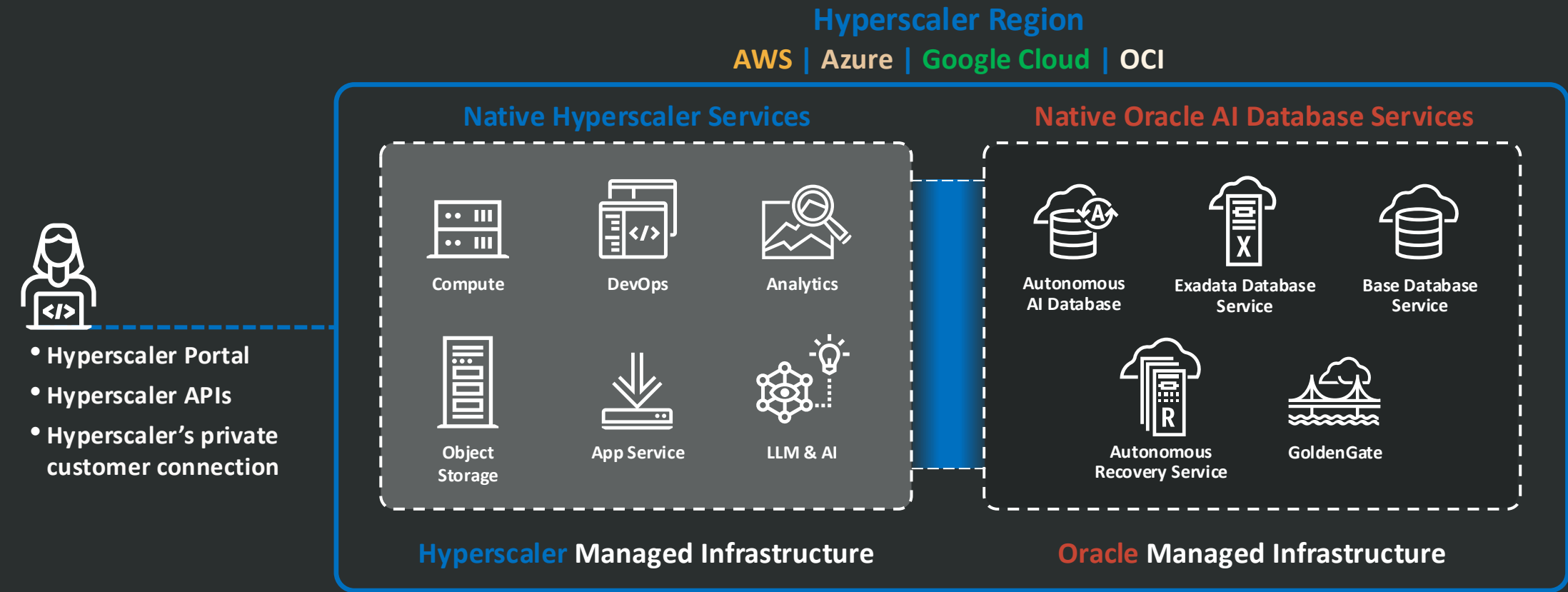
Ref. <https://www.oracle.com/news/announcement/ai-world-oracle-introduces-multicloud-universal-credits-2025-10-14/>

Multicloud Solutions



Oracle Database multicloud solutions: the best of both clouds

A choice of services directly from the hyperscaler’s Marketplace and Cloud Portal



Ultra-low latency between applications and Oracle databases



Build modern AI applications by integrating data and services in multicloud

Native Hyperscaler Services

Power BI

Looker

Amazon ECS
amazon QuickSight



Native Oracle AI Database Services with AI Vector Search


Autonomous AI Database


Exadata Database Service

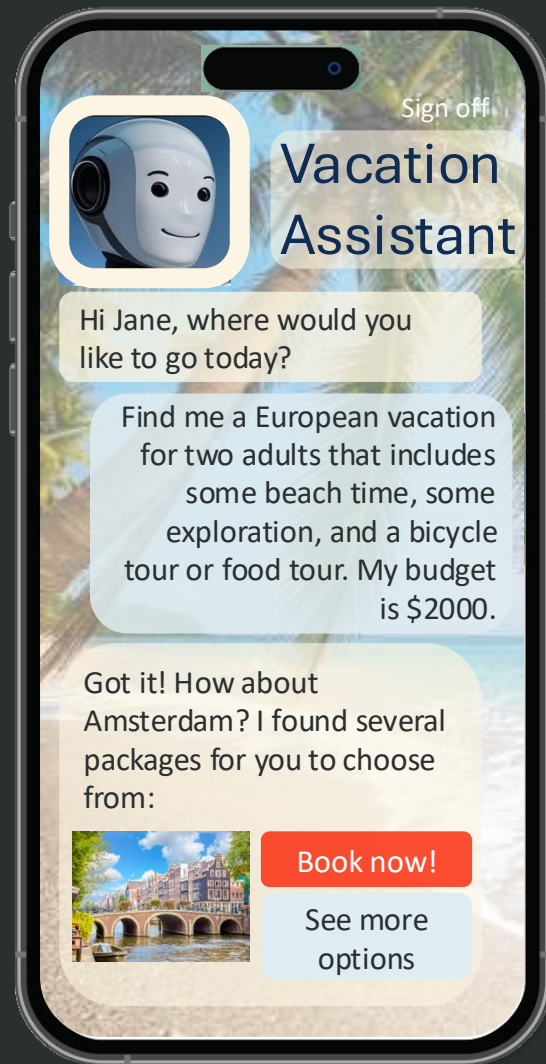

Base Database Service

AI Vector Search

Maximize the value of business data with AI and hyperscaler cloud services



AI Use Case #1: Transform E-Commerce product search with Oracle Database@Google Cloud and Google Vertex AI



How can we improve product search to understand customer intent beyond basic keyword matching?

- ✓ **Improve search accuracy and customer satisfaction** with deep semantic understanding of catalogs, storefronts, and product data
- ✓ **Find relevant results across the entire catalog** using keywords, similarities, images, and intent-based matching
- ✓ **Reduce operational costs while increasing revenue opportunities** by reducing cart abandonment and customer support inquiries

AI Vector Search in Oracle AI Database Powers Complete Gen AI Pipeline

Retrieval Augmented Generation (RAG) with your enterprise data

Vectorize Question

An end-user's human language question is encoded as a vector

1

Got it! How about Amsterdam? I found several packages for you to choose from, including flights, lodging, beach access, and guided bicycle tours of the city. I can customize any of these to suit you, or I can show you another destination.

- Option 1: \$1988
- Option 2: \$1956
- Option 3: \$1996



User

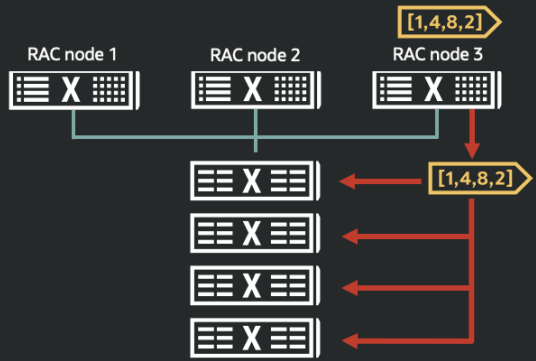


AI Vector

2

Find Related Data up to 30x faster

AI Vector Search is transparently offloaded to intelligent Exadata storage



Product catalog data and info

3

Augment Prompt and Response

The user's prompt is augmented with the vector search result and sent to an LLM



Vertex AI using Gemini model (LLM)

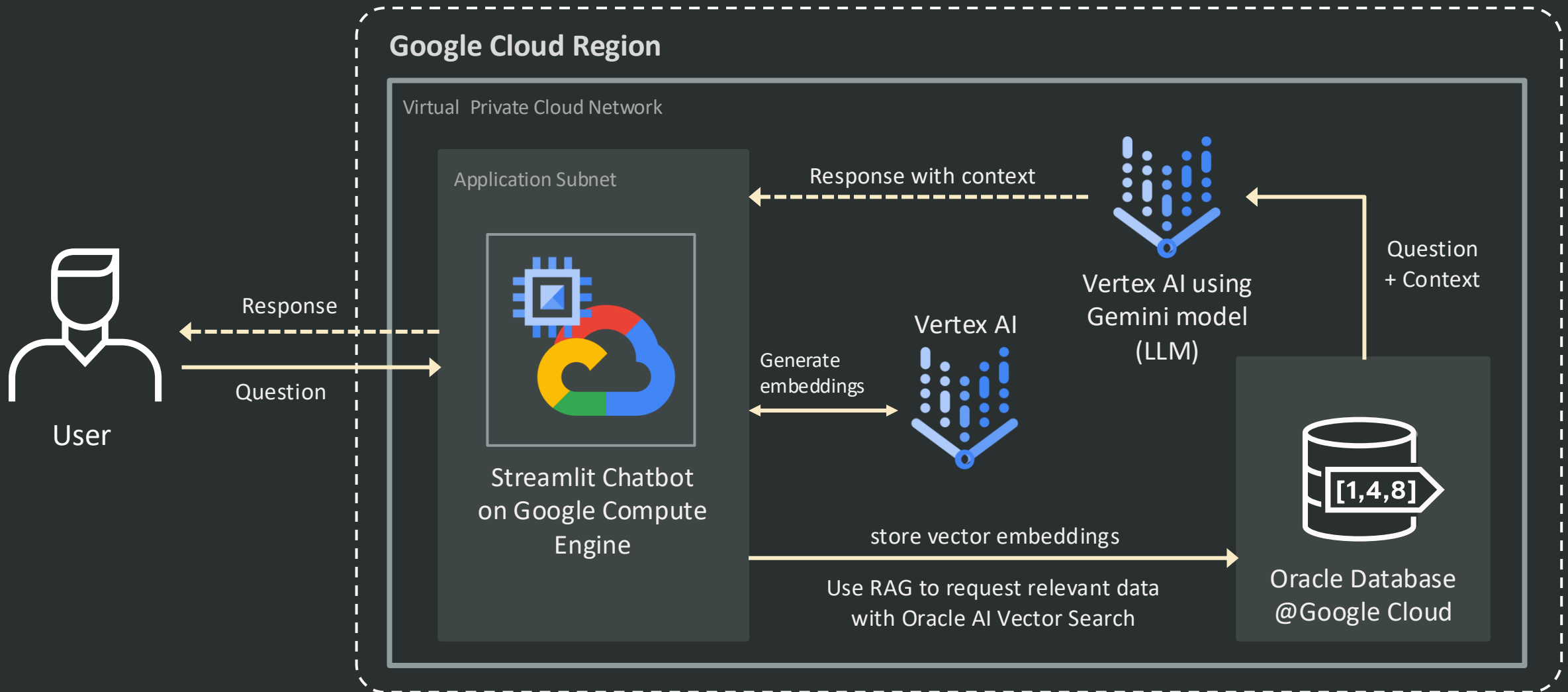
4

LLM Synthesizes Results

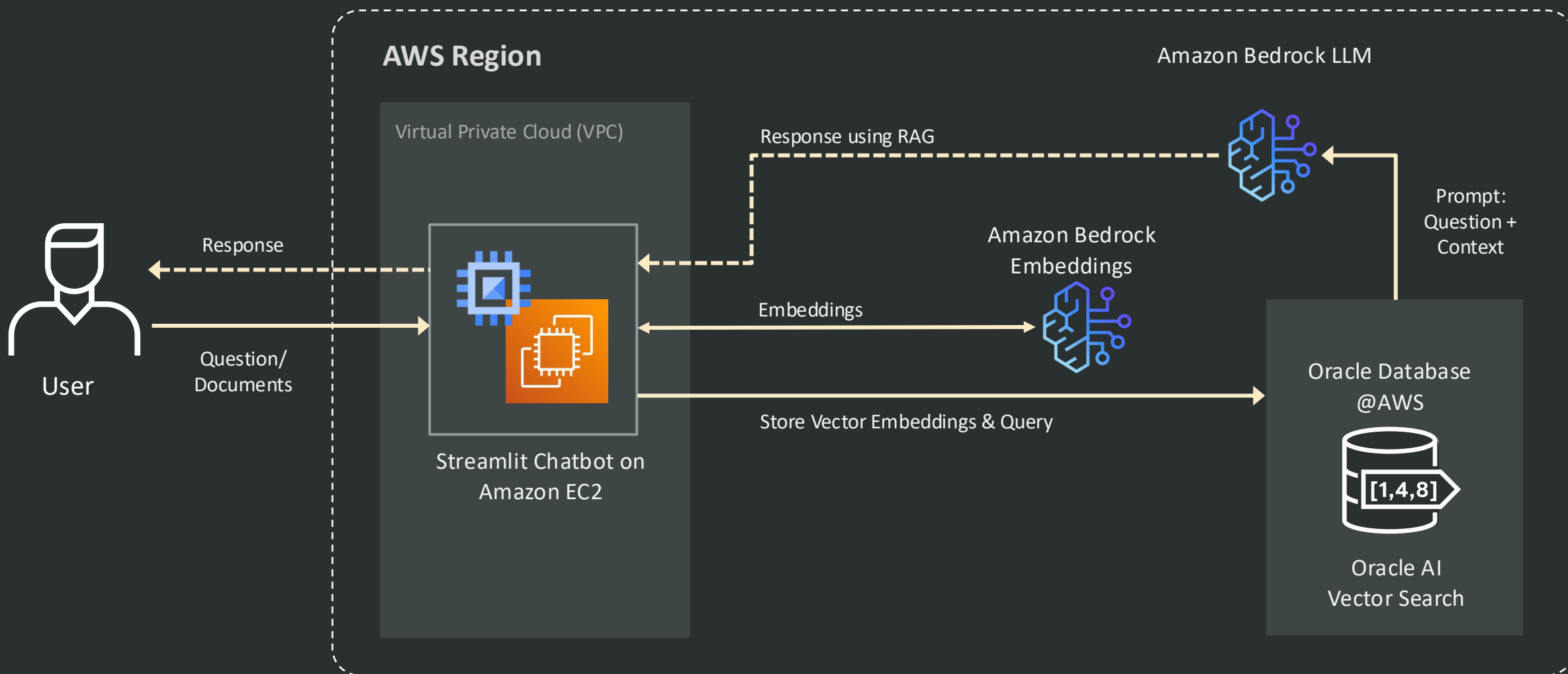
The LLM interprets the result set and provides an informed natural language response to the user



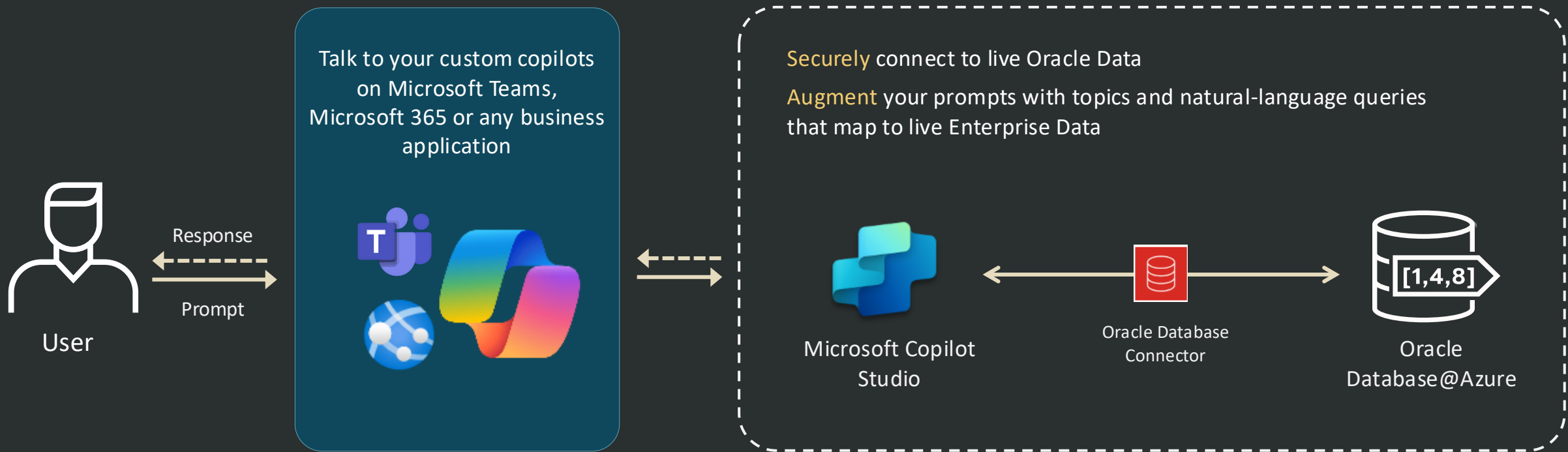
Architecture: Build intelligent apps using Google Vertex AI with Oracle Database@Google Cloud and Oracle AI Vector Search



Build intelligent chatbots quickly and easily with **Oracle Database@AWS** using Oracle AI Vector Search



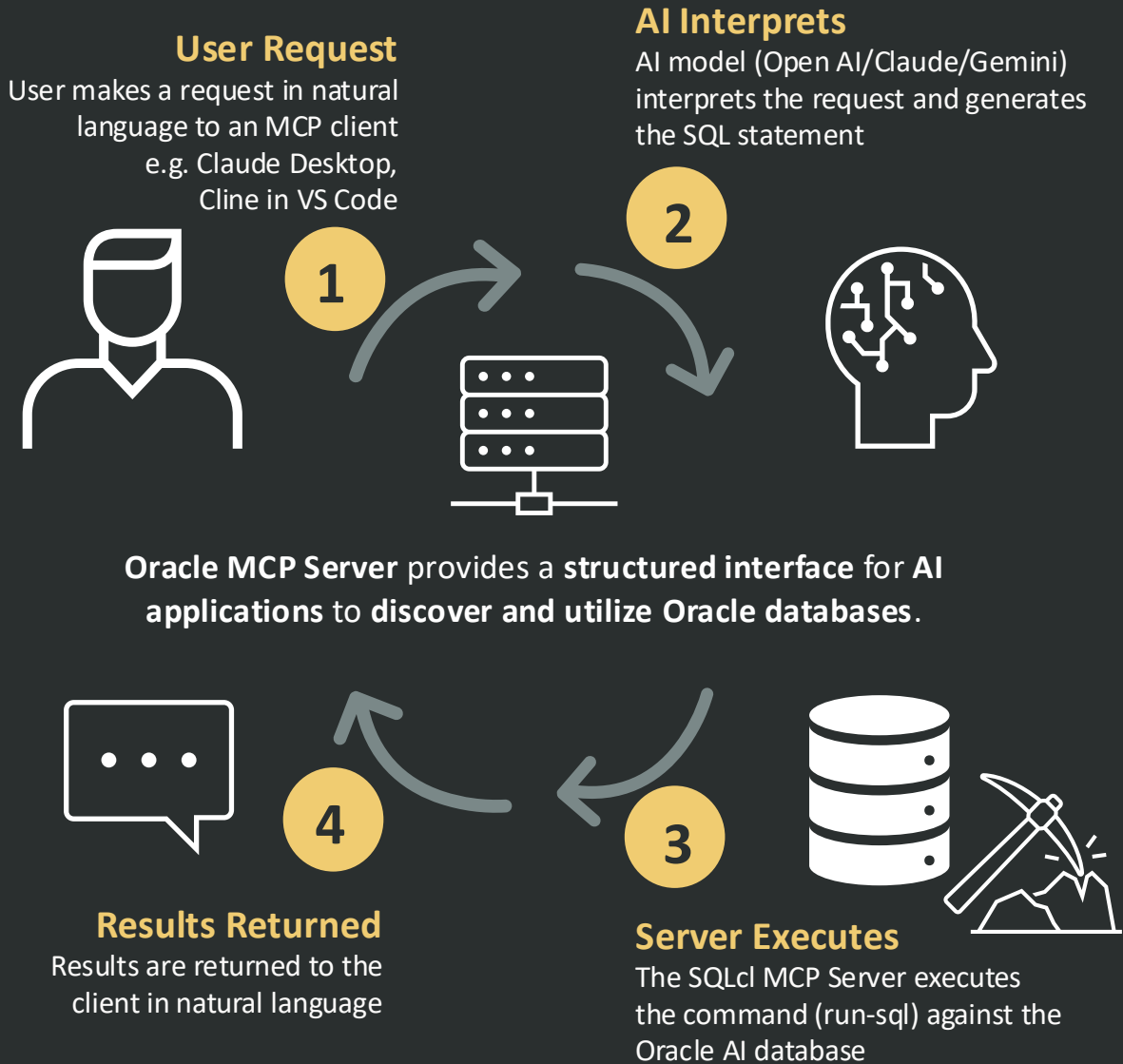
Build your own custom copilots with Microsoft Copilot Studio and **Oracle Database@Azure**



<https://techcommunity.microsoft.com/blog/oracleonazureblog/build-your-own-custom-copilots-with-microsoft-copilot-studio-and-oracle-database/4468211>



AI Use Case #2: Enhance productivity with Oracle MCP Server on Oracle Database@Azure



It's like having a personal assistant for your Oracle Database to:

- ✓ **Enhance business tasks** such as reporting, forecasting, and summarizing
- ✓ **Automate DBA tasks** including maintenance, troubleshooting, security analysis, and performance
- ✓ **Accelerate developer tasks** like explain, debug, document, tune, build, and enhance

Let's see examples of how this can be used...

Analyze your data, find patterns, and suggest real world improvements

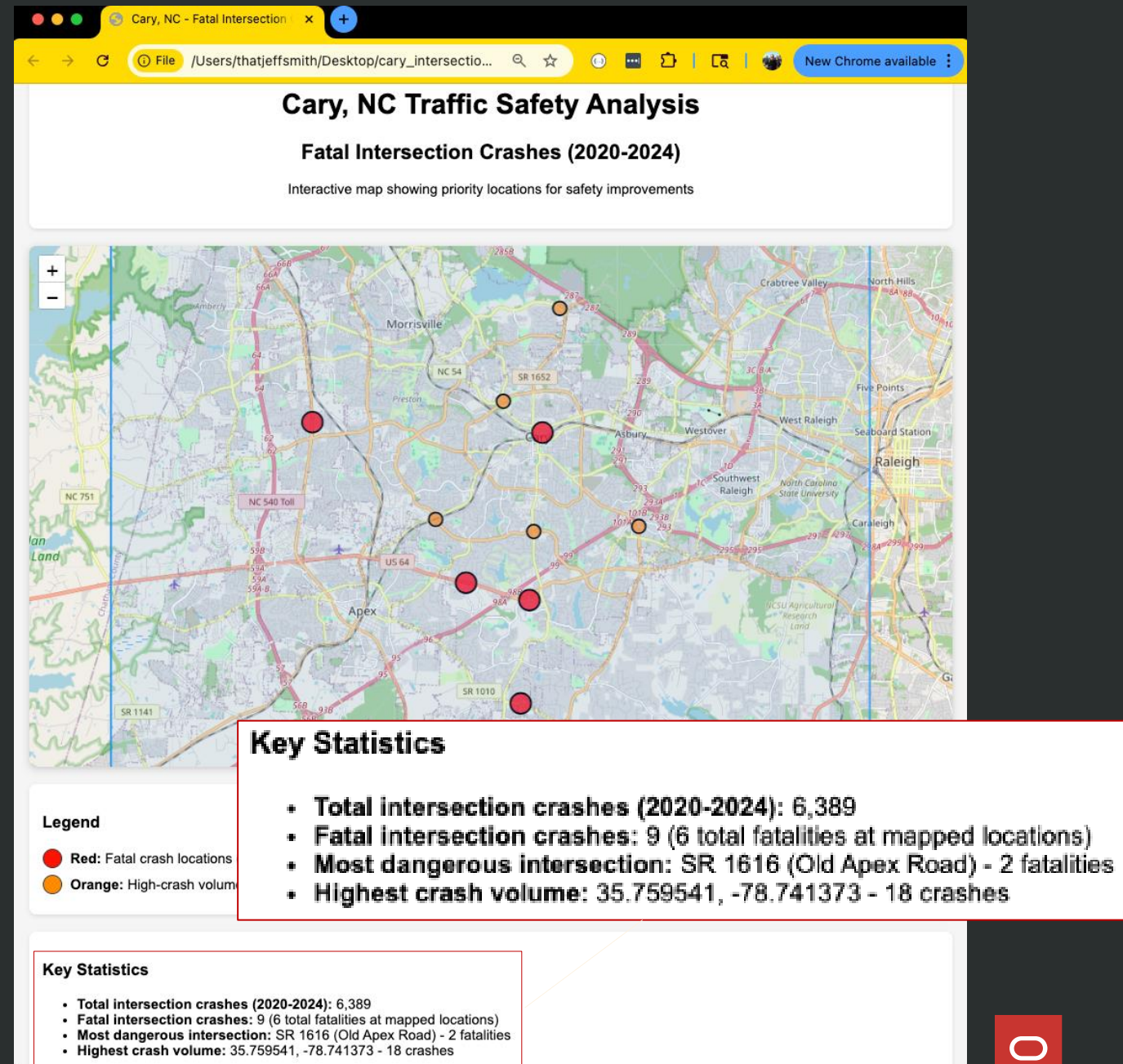
Prompt:

“Analyze the traffic data in our database for traffic crashes involving fatalities.

Using the geo coordinates, correlate to the town street maps to find the top dangerous intersections for prioritizing funding improvements”

Benefits:

- Accept natural language prompt
- Write and execute 8 SQL queries to find intersections and accident rates
- Plot coordinates on a map using Oracle Spatial capabilities
- Generate an HTML page with map and key statistical data



Improve DBA efficiency

Prompt:

“Your role as a database administrator is to *find the worst performing query* in the system over the past two weeks and provide optimization recommendations as an executive summary.”

Benefits:

- Natural language input and response
- MCP server writes 5 SQL queries, connects to the database, and executes the queries on the user’s behalf
- Results are delivered with priorities, clear implementation details, and impact

Immediate Action Items

● HIGH PRIORITY: Optimize Critical Query (SQL_ID: b39m8n96gxx7c)

- **Create Composite Index:** Implement covering index on frequently accessed columns
- **Query Rewrite:** Review and optimize JOIN operations and WHERE clauses
- **Expected Impact:** 60-80% reduction in execution time
- **Timeline:** Implement within 48 hours

● MEDIUM PRIORITY: High-Volume Query Optimization

- **Target:** SQL_ID 0qsph1wwqkgwg (3,537 executions)
- **Action:** Implement result caching and query plan optimization
- **Expected Impact:** 30-40% reduction in total database load
- **Timeline:** Complete within 1 week

● ONGOING: Performance Monitoring Enhancement

- **Implement:** Automated performance alerting for queries > 100ms
- **Schedule:** Weekly performance reviews
- **Tools:** Enhanced AWR reporting and query plan analysis

● HIGH PRIORITY: Optimize Critical Query (SQL_ID: b39m8n96gxx7c)

- **Create Composite Index:** Implement covering index on frequently accessed columns
- **Query Rewrite:** Review and optimize JOIN operations and WHERE clauses
- **Expected Impact:** 60-80% reduction in execution time
- **Timeline:** Implement within 48 hours

Developers can use prompts to interact with 26ai vector technology running in multicloud

Prompt:

“Create a table with 10 random sentences in the Autonomous 26ai database and create an embedding for each sentence.

Use this tutorial <https://blogs.oracle.com/...prebuilt-onnx-model...23ai>

Load the ALL_MINIMLM_L12_V2 model from this OCI object store bucket, <https://objectstorage...> to my database.

Use the model to vectorize the sentences, and store in a new column in the table.

Return the most similar sentence to "Oracle 23ai Embeddings".”

Benefits:

- Generates a synthetic data set
- Vectorizes data using imported ONNX model
- Vectorizes user queries for semantic search
- Executes 21 SQL queries on behalf of the user
- Returns results to the user in natural language

Perfect! I'm now connected to the Oracle 23ai database. Let me start by creating a table with 10 random sentences:

Run `run-sql` – sqlcl-dev (MCP Server)

This tool executes SQL queries in an Oracle database. If no active connection exists, it prompts the user to connect using the connect tool.

[See more](#)

Input

```
{ "sql": "CREATE TABLE sentences_table (\n  id NUMBER GENERATED B
```

[See more](#)

Note that MCP servers or malicious conversation content may attempt to misuse 'Code' through tools.

Continue

Cancel

1	2	Machine learning algorithms are transforming the way we analyze data.
2	3	The sunset painted the sky in brilliant shades of orange and purple.
3	4	Oracle Database 23ai introduces advanced artificial intelligence capabi
4	5	Coffee shops are becoming the new offices for remote workers.
5	6	Vector databases enable efficient similarity searches on high-dimension
6	7	The ancient library contained manuscripts from civilizations long forgo
7	8	Quantum computing promises to solve complex problems exponentially fast
8	9	Urban gardens provide fresh produce and green spaces in busy cities.
9	10	Natural language processing helps computers understand human communicat
10	11	The mountain trail offered breathtaking views of the valley below.

PROBLEMS

OUTPUT

DEBUG CONSOLE

PORTS

SQL HISTORY

TASK MONITOR

TERMINAL

No forwarded ports. Forward a port to access your locally running services over the internet.

Forward a Port

CHAT

> Ran `run-sql` – sqlcl-dev (MCP Server)

Perfect! Now let me verify that the embeddings were generated:

> Ran `run-sql` – sqlcl-dev (MCP Server)

Excellent! All embeddings have been generated. Now let me find the most similar sentence to "Oracle 23ai Embeddings" by generating its embedding and comparing it with our stored embeddings:

> Ran `run-sql` – sqlcl-dev (MCP Server)

Perfect! Let me also show the most similar sentence with a more detailed result:

> Ran `run-sql` – sqlcl-dev (MCP Server)

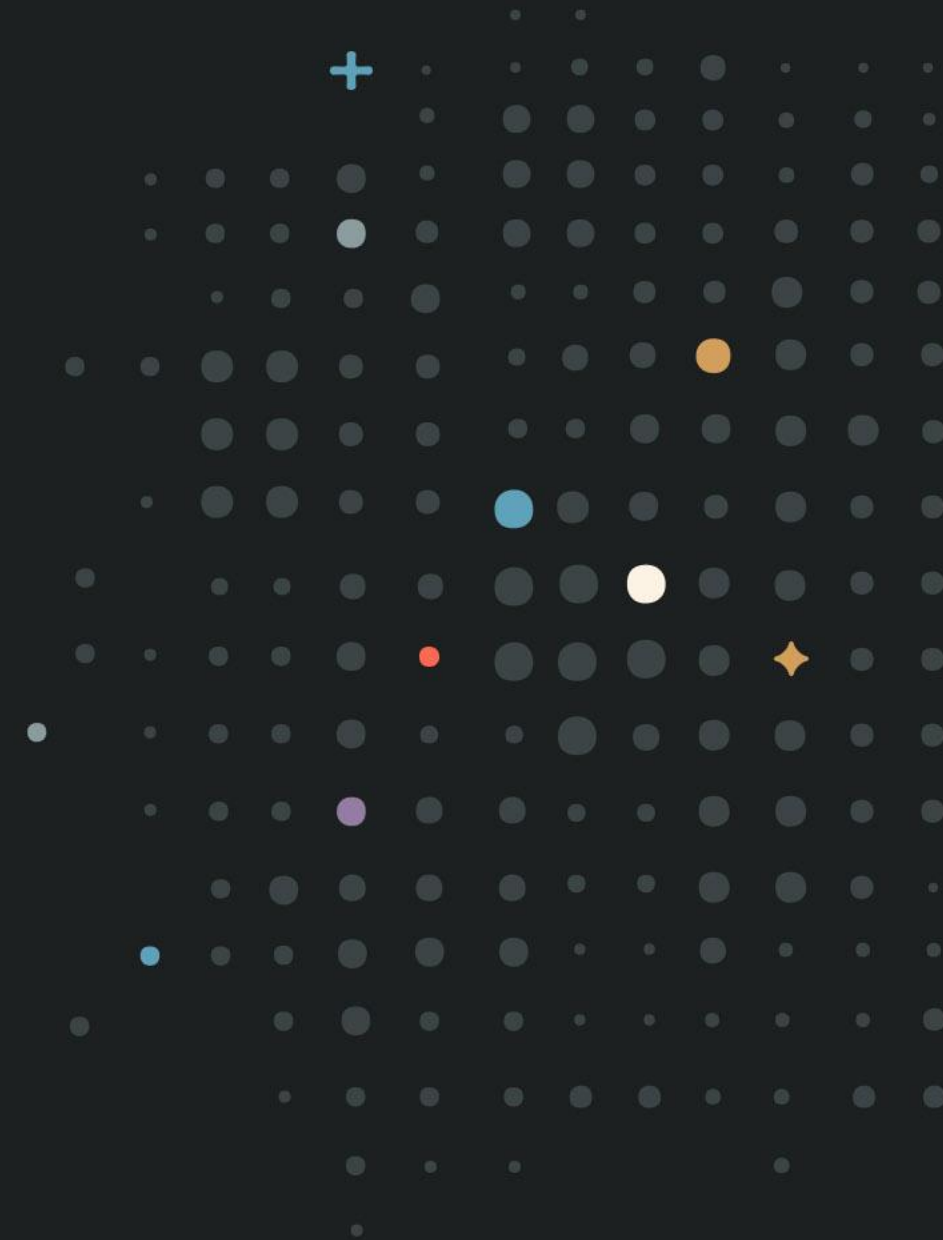
Summary

I've successfully completed all the requested tasks:

1. Created Table with 10 Random Sentences
 - Created `sentences_table` with columns for ID, sentence, and vector embeddings
 - Inserted 10 diverse sentences covering various topics
2. Downloaded and Loaded the ALL_MINIMLM_L12_V2 Model
 - Downloaded the ONNX model from the provided Object Storage URL
 - Successfully loaded it into Oracle Database 23ai using `DBMS_VECTOR.Load_onnx_model`
 - Verified the model is available and functional
3. Generated Embeddings for All Sentences
 - Used the `VECTOR_EMBEDDING` function with the loaded model
 - Generated 384-dimensional embeddings for all 10 sentences
 - Stored embeddings in the `VECTOR(384, FLOAT32)` column
4. Found Most Similar Sentence to "Oracle 23ai Embeddings"
 - **Most Similar Sentence:** "Oracle Database 23ai introduces advanced artificial intelligence capabilities."
 - **Similarity Score:** 63.38% (using cosine similarity)



Regions, Testimonials, and Key Takeaways



Oracle Multicloud: rapidly expanding global footprint



Oracle Database @Azure

33 Live

- Canada Central
- Canada East (DR)
- East US
- East US 2
- Central US
- West US (DR)
- West US 2
- West US 3
- South Central US
- France Central
- Germany North (DR)
- Germany West Central
- North Europe
- Italy North
- Spain Central
- Sweden Central
- West Europe
- Switzerland North
- UAE Central (DR)
- UAE North
- UK West (DR)
- UK South
- Australia Southeast
- Australia East
- Central India
- South India (DR)
- Japan West (DR)
- Japan East
- Southeast Asia
- Brazil South
- North Central US (DR)
- Brazil Southeast (DR)
- France South (DR)

Oracle Database @Google Cloud

12 Live regions

- North America Northeast 1 (Montreal)
- North America Northeast 2 (Toronto)
- US East 4 (Ashburn)
- US Central 1 (Iowa)
- US West 3 (Salt Lake City)
- Europe West3 (Frankfurt)
- Europe West2 (London)
- Asia Northeast 1 (Tokyo)
- Australia Southeast1 (Sydney)
- Australia Southeast 2 (Melbourne)
- Asia South 1 (Mumbai)
- South America East 1 (Sao Paulo)

5 Planned regions

- Europe West 8 (Milan)
- Europe West 12 (Turin)
- Asia South 2 (Delhi)
- Asia Northeast 2 (Osaka)
- North America South1 (Queretaro)

Oracle Database @AWS

5 Live

- US East 1 (Northern Virginia)
- US West 2 (Oregon)
- Europe Central 1 (Frankfurt)
- US East 2 (Ohio)
- Asia Pacific Northeast 1 (Tokyo)

17 Planned

- Canada (Central)
- US West 1 (N. California)
- Europe West 1 (Ireland)
- Europe West 2 (London)
- Europe West 3 (Paris)
- Europe Central 2 (Zurich)
- Europe South 1 (Milan)
- Europe South 2 (Spain)
- Europe North 1 (Stockholm)
- Asia PacificSoutheast 1 (Singapore)
- Asia PacificSoutheast 2 (Sydney)
- Asia PacificSoutheast 4 (Melbourne)
- Asia PacificSouth 1 (Mumbai)
- Asia PacificSouth 2 (Hyderabad)
- Asia PacificNortheast 2 (Seoul)
- Asia PacificNortheast 3 (Osaka)
- South America (Sao Paulo)

Industry experts align on Oracle Database Multicloud



With Oracle Database@**Google Cloud**, the combination of Autonomous Database and Google Vertex AI opens up some **interesting new vistas for enterprise-grade GenAI deployments**.



With Exadata and RAC running on OCI in **AWS** data centers, Oracle databases can achieve levels of **performance and availability not previously experienced by customers in AWS**.

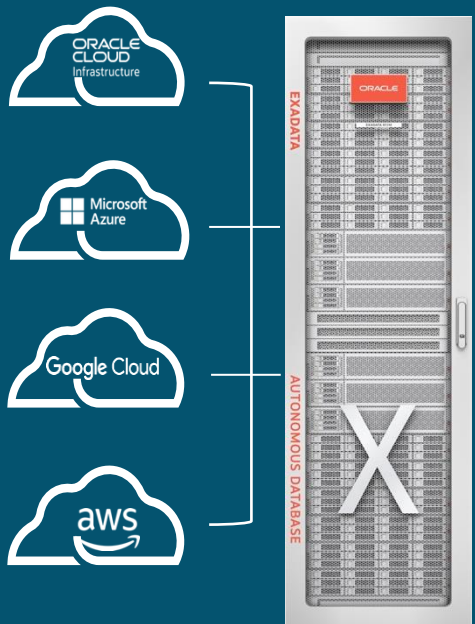


Azure users experience directly the power and benefits of Autonomous Database without any concerns of latency and ingress/egress fees. **This is a game changer and walled gardens are over**.



More broadly, Oracle's redefinition of multicloud with Oracle Database running right within AWS, as well as within Azure and Google Cloud, expands the art of what's possible for companies seeking to **accelerate their own AI transformation**.

Key Takeaways



1

Run Oracle AI Database workloads **anywhere with full functionality** across on-premises, hybrid cloud and public cloud with OCI and Multicloud

2

Oracle AI Database, when deployed in Multicloud, has **unique capabilities that make it the best platform** for all modern workloads

3

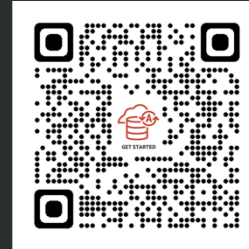
Data modernization strategies driving **multicloud customer momentum**, combining Oracle AI Database and Exadata with the best cloud technologies

Learn More



Oracle Multicloud

Features, Use cases, solutions



Oracle Autonomous AI Database

Feature, pricing, get started



Oracle multicloud documentation

Landing zone, step-by-step guide,
compliance



Oracle AI solutions

Quick starts

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ORACLE