

Autonomous Database

Learning Lounge

Autonomous Database changes the way you build smart applications. Learn how easy it is!



Hosted by Marcos Arancibia
Autonomous Database Product Management

THIS SESSION IS BEING RECORDED



Agenda

Autonomous Database changes the way you build smart applications. Learn how easy it is!

Marcos Arancibia, Senior Principal Product Manager will briefly explain what Oracle Autonomous Database is and the basic concepts behind it.



Marty Gubar, Director of Product Management will show how to simplify your path to success with Analytics thru a use case using **Autonomous Database** tool set easy-to-use, self-service platform:

- **Discover and integrate data needed for analytics from multiple cloud stores**
- **Develop interactive dashboards**
- **Identify high-value, at-risk customers**
- **Personalize recommendations**

He will also show you how to get access to tutorials with tips and tricks, live demos, best practices and Live Labs for free hands-on experiences, and show the ADB monthly Newsletter.



Open Q&A

Product Managers will answer any technical questions about the Autonomous Database service, its features, integration capabilities and use cases.



Before we begin...

- This session is for you!!!
- Ask any questions in **Q&A**
-  Oracle Product Managers are on standby
- **Recording will be available** a few days after the session, in the same page you used to join today
- Make sure to interact with us!



Primer on Autonomous Database



Oracle Database: Platform of choice for the world's most critical workloads

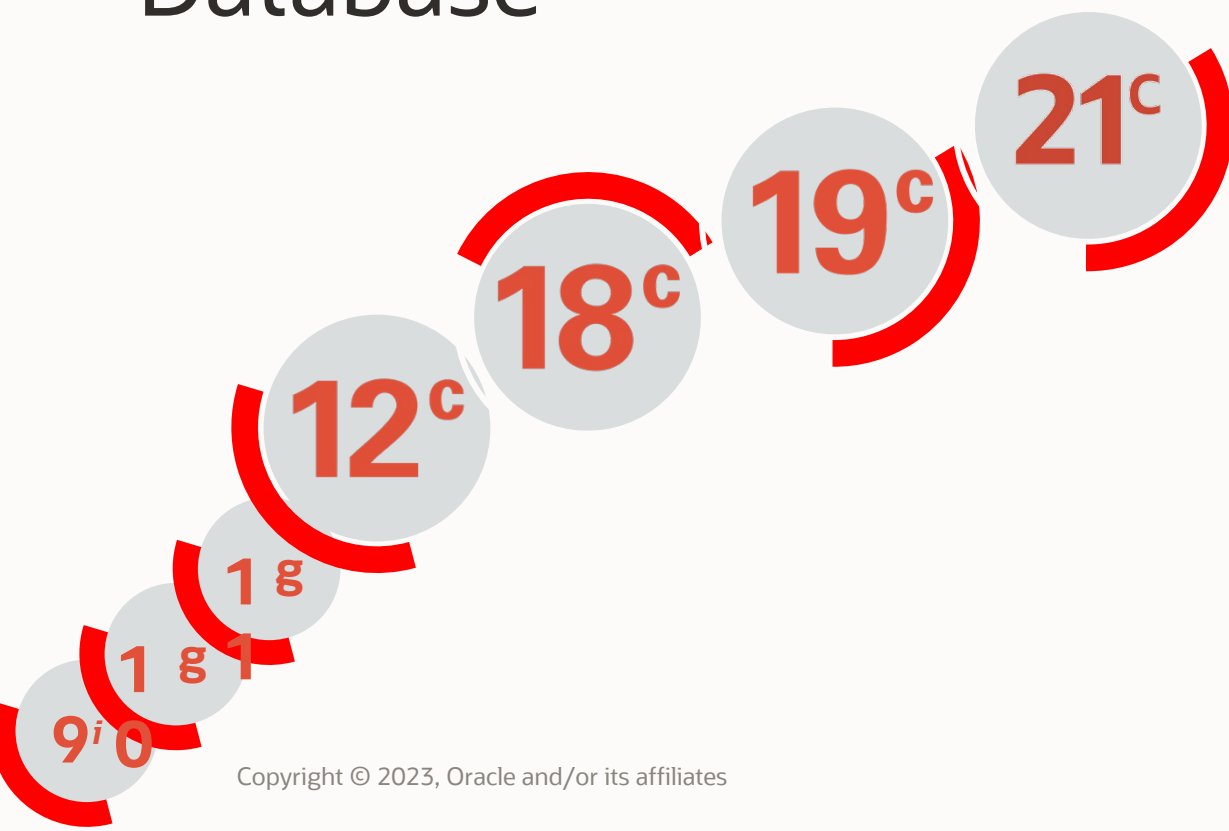


Broad ecosystem - everybody supports Oracle Database

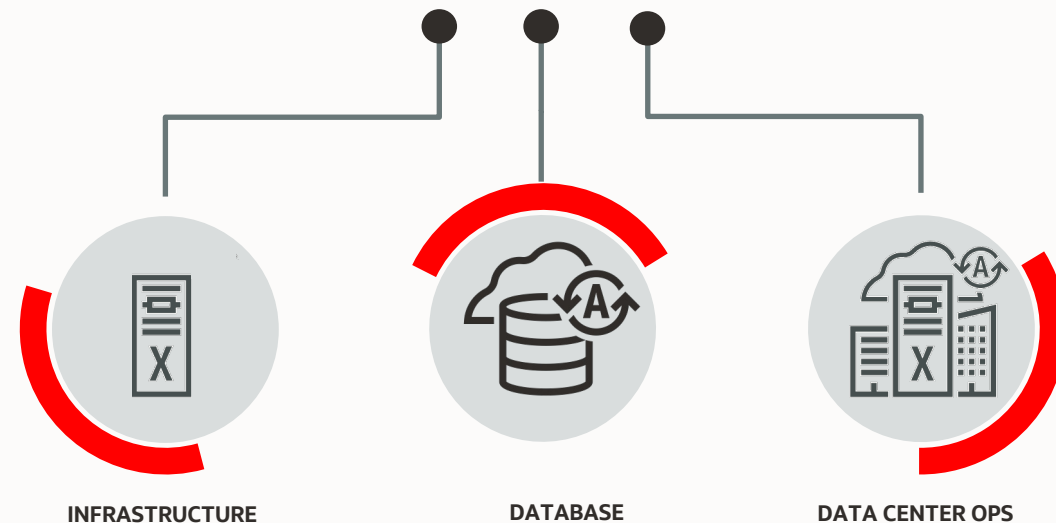


Oracle's delivers a new vision for data management

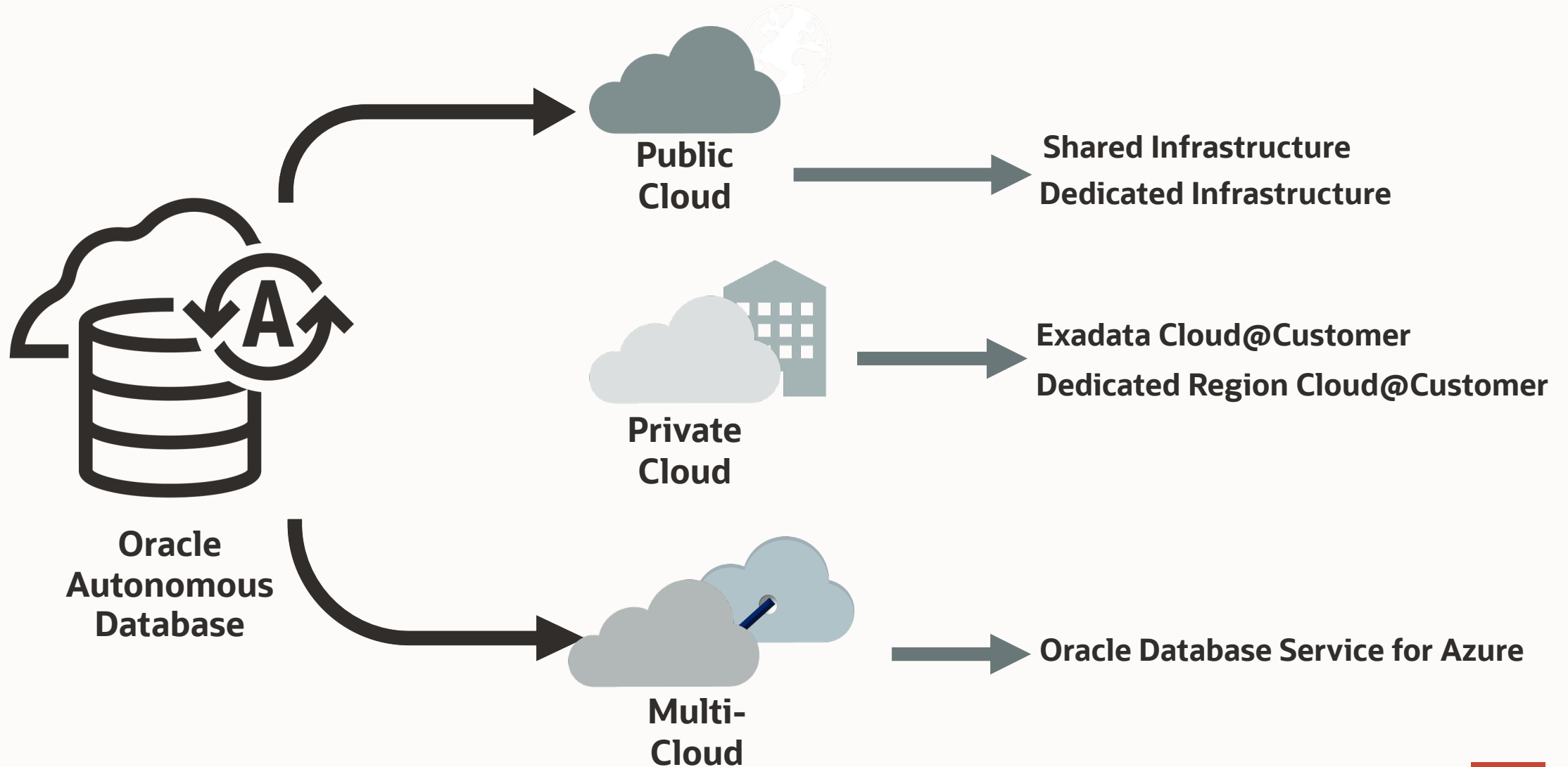
...an **EVOLUTION** of
the world's #1
Database



...a completely **NEW**
type of cloud service



Deployment choices to match your CLOUD and DATA requirements



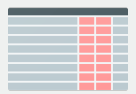
Oracle Database Vision

Make it simple to deliver modern data-driven application and analytic workloads in the cloud

Manage increasing complexity of modern business operations

Modern data-driven businesses create powerful experiences for users and more value for enterprises using a wide variety of data technologies:

Many Types of Data



Relational

{ JSON }

Documents



Graph



Text



Spatial

Many Types of Workload



Micro
Services



Data
Mesh



IoT



Blockchain



Pre-built
Apps



Machine
Learning



Social
Graph



Location



Lake
House

Breadth-depth of technologies used by modern businesses makes data management increasingly **complex**

Making complete solutions **manageable, available, and secure** adds **even more complexity**

What is the best way to deliver modern data management platform?

Common platform, optimized for specific workloads



Data Warehouse

Built for decision support and data warehouse workloads. Fast queries over large volumes of data

APEX

Built for Oracle APEX App development. Creation and deployment of low-code applications, with database included



Transaction Processing

Built for transactional workloads. High concurrency for short-running queries and transactions

JSON

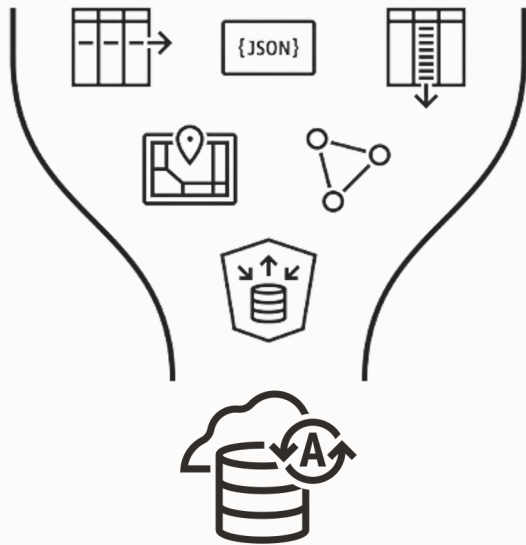
Built for JSON-centric application development. Developer-friendly document APIs and native JSON storage



Develop smarter applications the way you want

Dramatically reduce complexity, cost, and time-to-market

Any Data



Converged, open, SQL database for multiple data types and data models

Any Workload



Transactional processing, data warehousing, analytics, machine learning, application development and mixed workloads

Any Development Style



Zero-code/low-code to any-code through built-in frameworks: APEX, MongoDB API.
Support for existing development styles and frameworks



**Autonomous Database changes
the way you build smart
applications. Learn how easy it is!**





Build Smart Applications with Autonomous Database

Autonomous Database Learning Lounge

Marty Gubar

Product Management

Oracle Autonomous Database

May 2023



Developers prefer...

... single purpose databases

- Document Database
- Graph Database

Ease of Use
Specific Features

CTOs want something else...

... ease of repurposing data across the enterprise

Common:

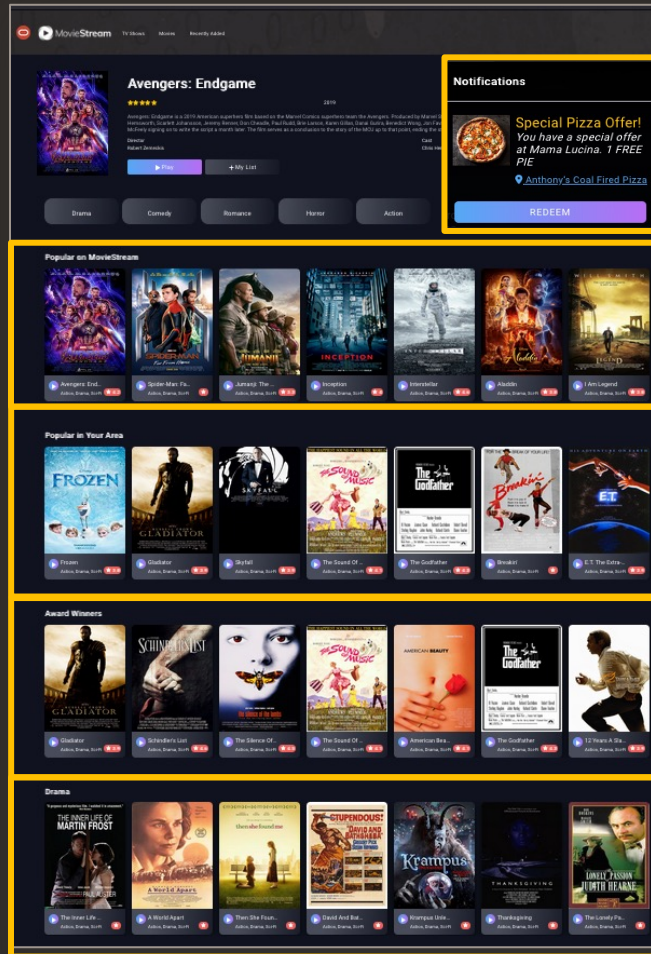
- Tooling
- Upgrades
- Patches
- Privacy policies

How can a company improve both?

developer productivity
AND
data productivity

Oracle MovieStream: a personalized user experience

There is a lot of intelligence behind the application



➤ **Machine Learning + Spatial Analytics**
Predict churn and localize an offer

➤ **Analytic SQL**
Rankings over recent transactions

➤ **Analytic SQL + Spatial**
Rankings refined based on location

➤ **JSON Analytics**
Query complex JSON data types

➤ **Graph Analytics**
Recommendations using sophisticated graph algorithms

Visit our library
of free
workshops

bit.ly/adb-workshops

LiveLabs Search Workshops and Sprints...

Clear Search & Filters

Sort By Most Popular

Number of Workshops: 17

Workshop Series

Autonomous DB Shared X

Level

Beginner (9)

Intermediate (8)

Advanced

Workshop Type

Paid Credits (17)

Run on LiveLabs (11)

Sprints

Run on Gov Cloud

ADB for Free

Workshop Series

DBA Masterclass Series (17)

Autonomous DB Shared (17)

DBA Essentials (10)

MovieStream Series (7)

Autonomous DB Dedicated (4)

Clear

Workshops and Sprints

Load and Analyze Your Data with Autonomous Database

Perform basic tasks on Autonomous Database: provision, load data, create data visualization

1 hr, 30 mins

Building an App from a Spreadsheet using Oracle APEX

Create an application in minutes

Autonomous Database Minute Quick Start

Deploy and query Autonomous Database instance, create data warehouse

15 mins

Introduction to Machine Learning on Autonomous Database

Python is a major language used for machine learning.

2 hrs

Access the Data

Watch our series
of how-to
demo videos

bit.ly/adb-demos

ORACLE Products Industries Resources Customers Partners Developers Events Company

See how to put all your data to work

Say goodbye to data silos and specialized engines that complicate your life. See for yourself how Oracle Autonomous Database helps you achieve the best business outcomes by simplifying your data platform.

- Integrate any data from anywhere
- Empower innovators with integrated, self-service analytics
- Develop smarter applications the way you want
- Take advantage of a platform that is always ready, always secure

Integrate any data from anywhere

It's easy to integrate any data from anywhere. See how to spin up an Autonomous Database and then load or link to data from a variety of sources.

Provision a database in minutes

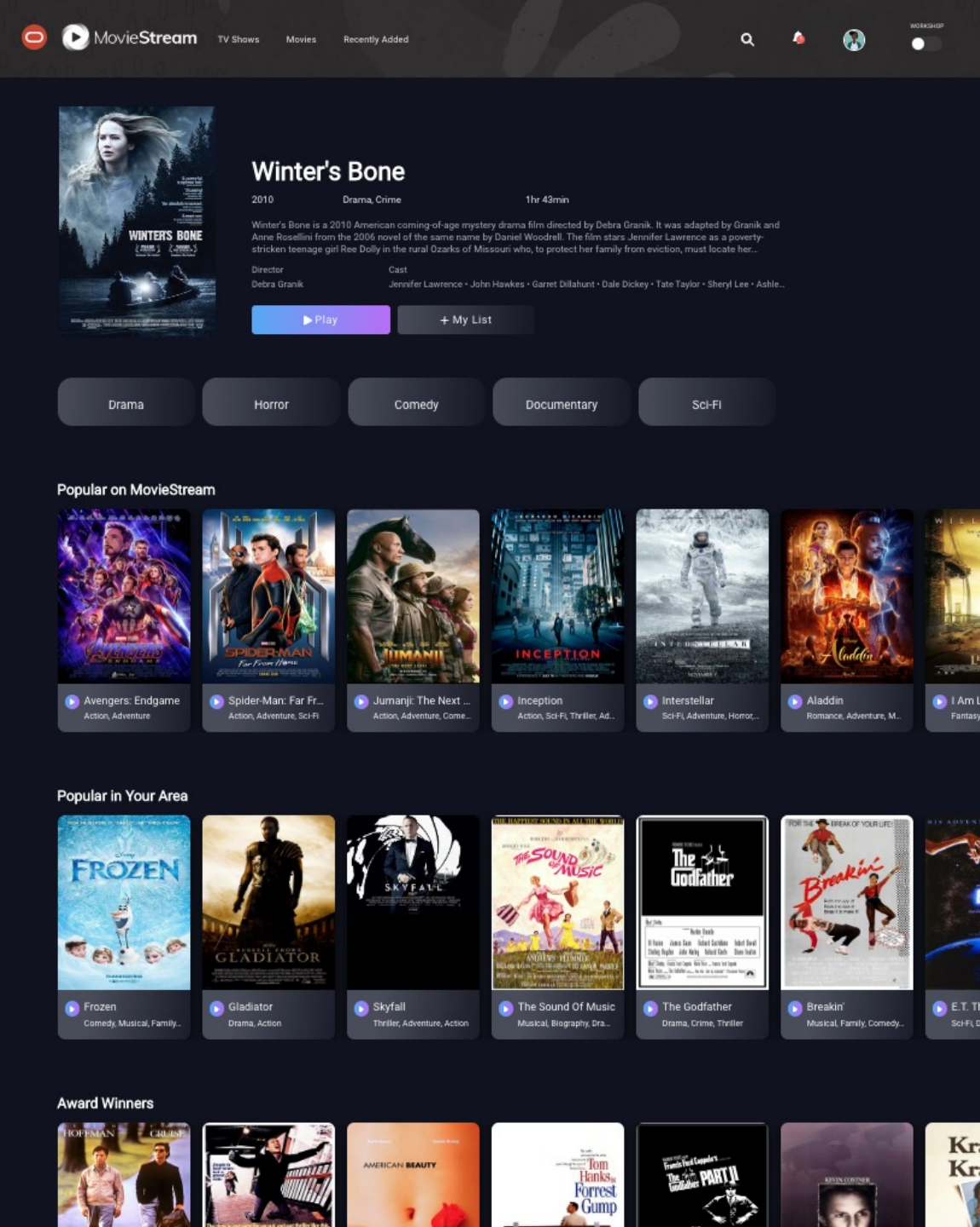
Self-service data integration

Integrate data across clouds

Create a database and tour the service

Simplified data integration

Securely integrate data across clouds



Developing the personalized experience

Front-end developer viewpoint

- Must deliver a compelling user experience
- Need a productive, easy to use API plus fast, reliable performance

Don't know and don't care
how page contents are derived!

This person cares about the page content

She's the REST endpoint



To make the best product recommendations or find at-risk customers, she needs to work with lots of data sets

- about activity
- about communities
- about customers
- from partners
- and so much more

Your data can drive innovation, but...

95%

requires extensive
manual involvement

60%

complained about overall
management complexity

38%

too costly to acquire
and maintain

33%

too slow to deploy

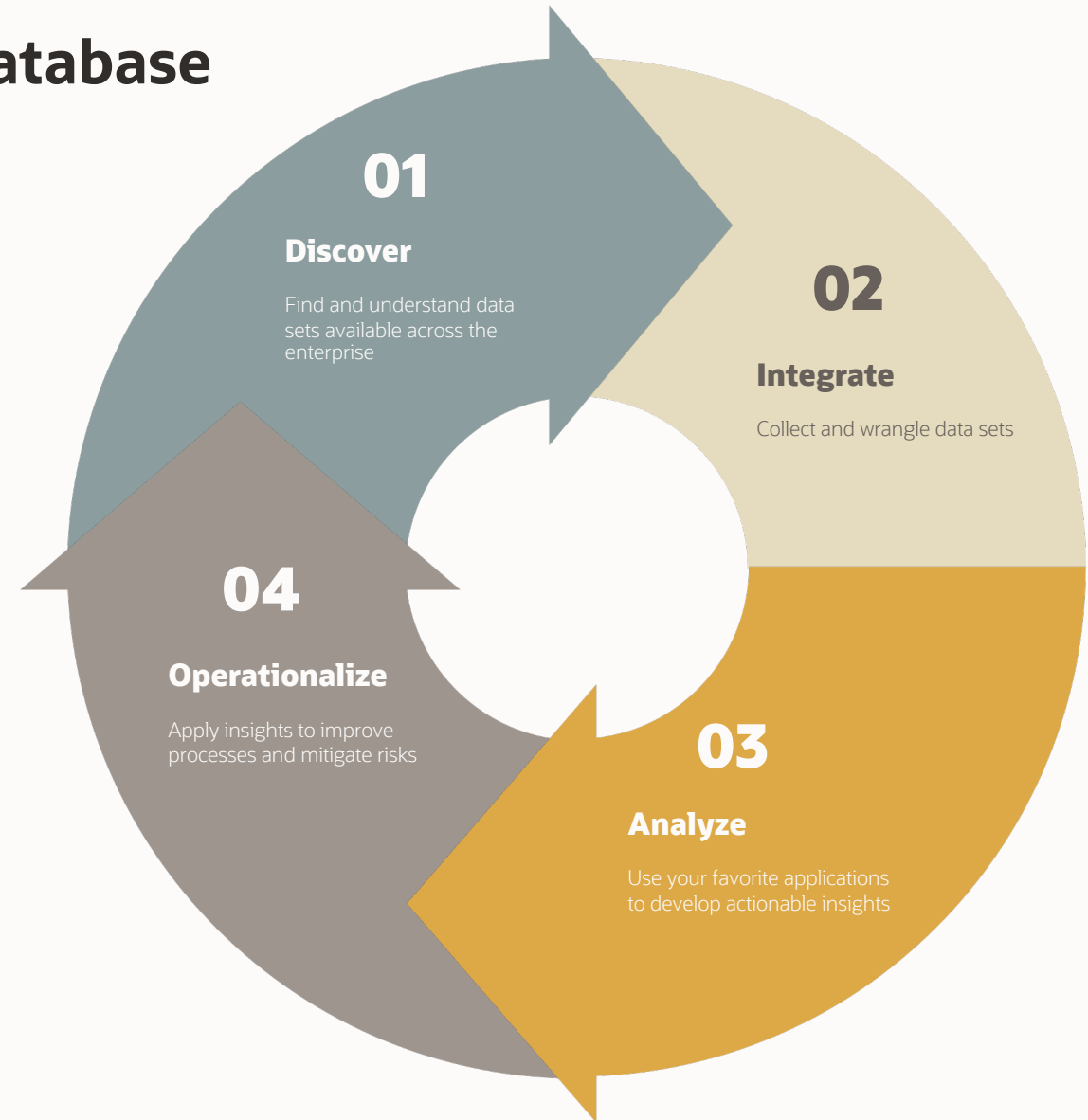
**Data systems and tools need to be
modernized to deliver more and faster**



Simplify data with Autonomous Database

Do more with data

Put your data to work using built-in self-service tools and your favorite applications. Focus on innovating and gaining insights from all your data. Sleep well at night with the confidence that your data is always safe and available.

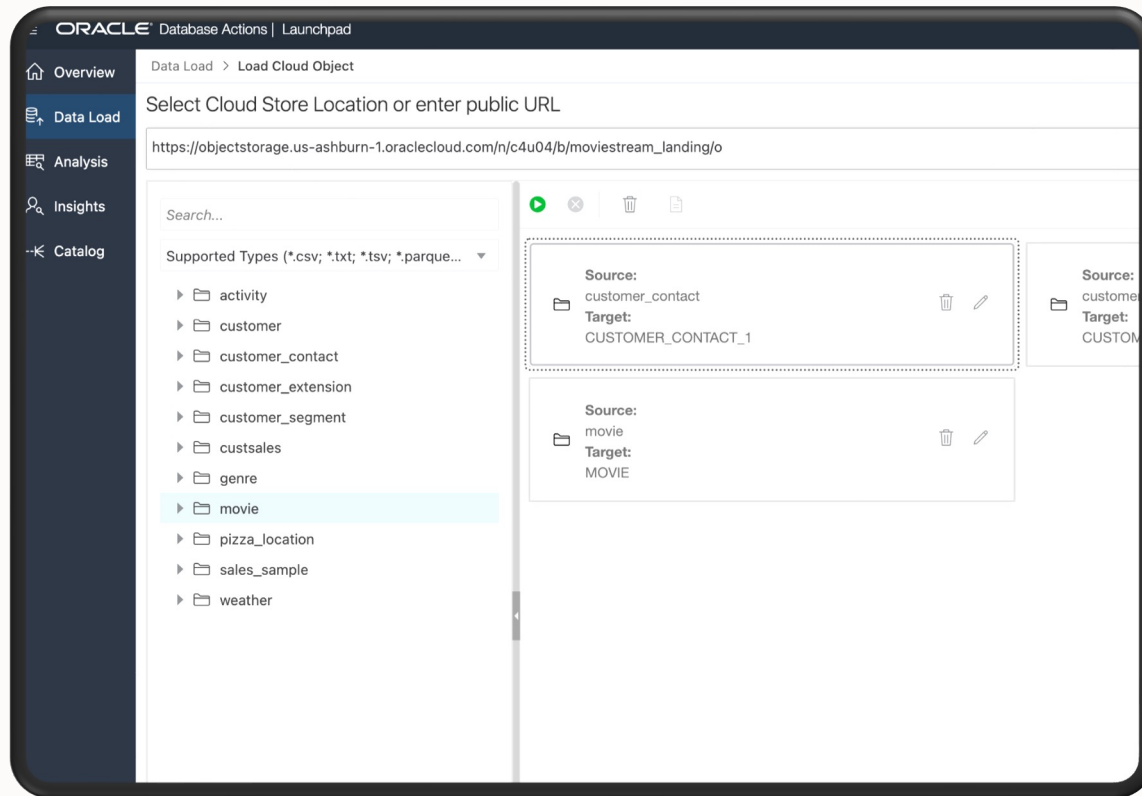


How MovieStream leverages analytics

- 1 Discover and integrate data from Oracle Cloud and Amazon S3
- 2 What movies are popular near you?
- 3 Find high value customers at risk of leaving Oracle MovieStream and make an offer
- 4 Publish new data sets to interactive dashboards
- 5 Recommend movies based on communities
- 6 See the outcome in the Oracle MovieStream application!

Load or link to data sources

Productive, self-service data load experience



- Simple user experience to link, load, and transform data from databases and cloud storage
- Multi-cloud support, including OCI, Amazon S3, Azure Blob Storage, Google Cloud Storage, and more
- Multi-database support, including Microsoft SQL Server, Azure SQL, Amazon Redshift, IBM DB2, MySQL, PostgreSQL, Snowflake, MongoDB and more

Take advantage of external data using comprehensive APIs

Full listing of APIs at <https://bit.ly/adb-apis>

Authorization

create_credential

Data Loading

copy_data
copy_collection
get_object

Data Export

export_data

REST APIs

send_request
get_response_headers
get_response_status_code
get_response_text
get_api_result_cache_size
set_api_result_cache_size

Data Linking

create_external_table
create_external_part_table
create_hybrid_part_table
create_external_text_index

File management

copy_object
delete_object
list_objects
move_object
put_object
bulk_copy
bulk_delete
bulk_download
bulk_move
bulk_upload
list_files
delete_file

APIs simplify optimized access to data lake sources

Example: automatically generated partitioned external table improves performance

Object store bucket:
sales with monthly partitions

custsales

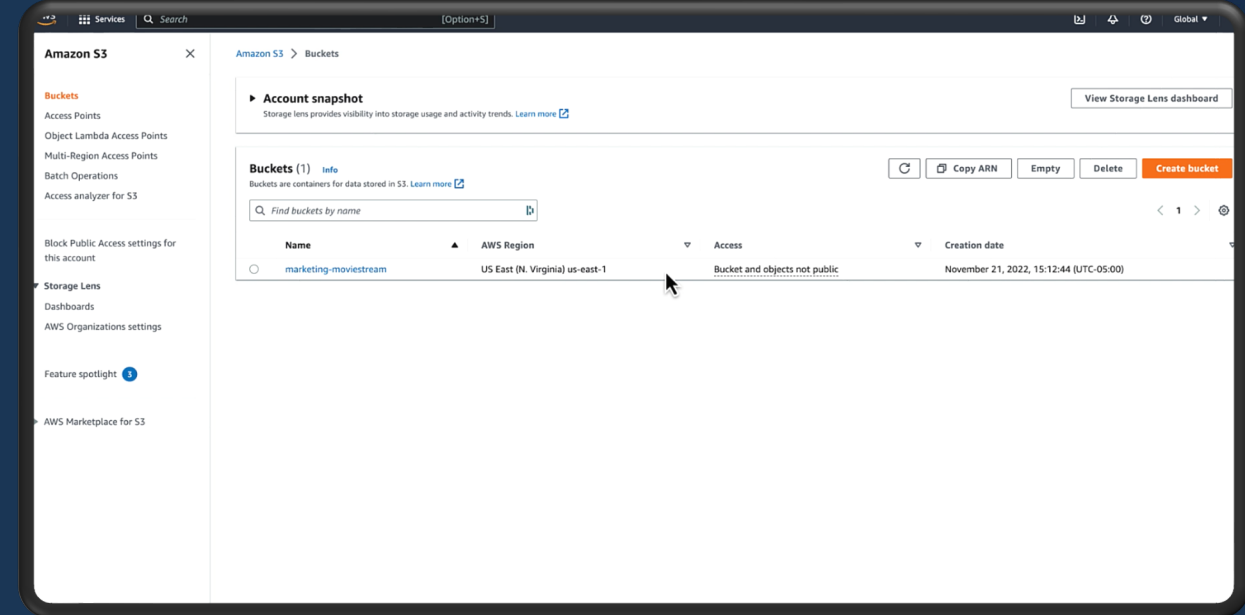
```
-- Create an external table
-- Partitions and columns automatically
-- derived from parquet file content and location
dbms_cloud.create_external_part_table
(
    table_name => 'ext_custsales',
    file_uri_list => '&gold_bucket/custsales/*',
    format => '{"type":"parquet",
               "partition_columns":["month"]}
);
```

<https://bit.ly/adb-demos>



ORACLE AUTONOMOUS DATABASE

Integrate data across clouds



Discover and understand available data

OCI Data Catalog - “Spotlight for OCI”

- Quickly discover data across Object Storage, Autonomous Database, Oracle databases, MySQL, Kafka, Hive and more for analytics
- Manage a business glossary and associated technical metadata to improve data governance

Data Discovery and Business Glossary



Oracle Cloud and on-prem sources

Immediately use Data Catalog metadata to find and query data sets

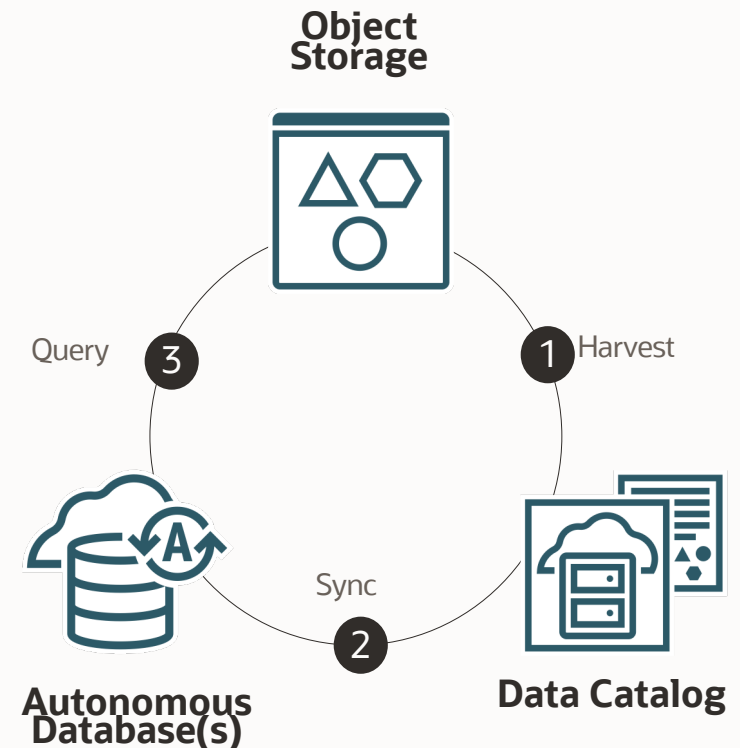
Autonomous Database both a Data Catalog source and consumer

Data Catalog is the source of truth for Object Store metadata

- Harvest object storage to derive schemas
- Manage business glossary, terms and tags
- Discover data using powerful search

Use Autonomous Database to discover and analyze data sets

- Managed schemas and tables defined automatically
- Use Oracle SQL to query both metadata and object storage data



Simplify analytics across complex data sources using Oracle SQL

Avoid falling off complexity cliff - Existing tools and applications just work

Advanced Statistics

- Statistical aggregates
- Linear regression
- Descriptive stats
- Correlations
- Cross Tabs
- Hypothesis testing
- Distribution fitting
- Pareto analysis

JSON Functions

- JSON Table
- JSON Object
- JSON Query
- JSON Object

Common Analytics

- Window functions
- Ranking
- Lag/lead
- Top-N
- WITH clause
- Pivot/Unpivot
- Aggregation functions
- Approximate Queries
- Ratio to Report

Advanced Analytics

- Pattern matching
- Model clause

Machine Learning

- Regression
- Classification
- Clustering
- Anomaly detection
- Ranking
- Association
- Feature selection
- Row importance
- Time series

Spatial Analytics

- 100s of functions
- Enrichment
- 2D, 3D, LiDAR, Raster, Network, Topology

Text Analytics

- Indexing
- Linguistic
- Search words, themes
- Document Classification
- Named Entity Recognition
- Sentiment Analysis

Graph Analytics

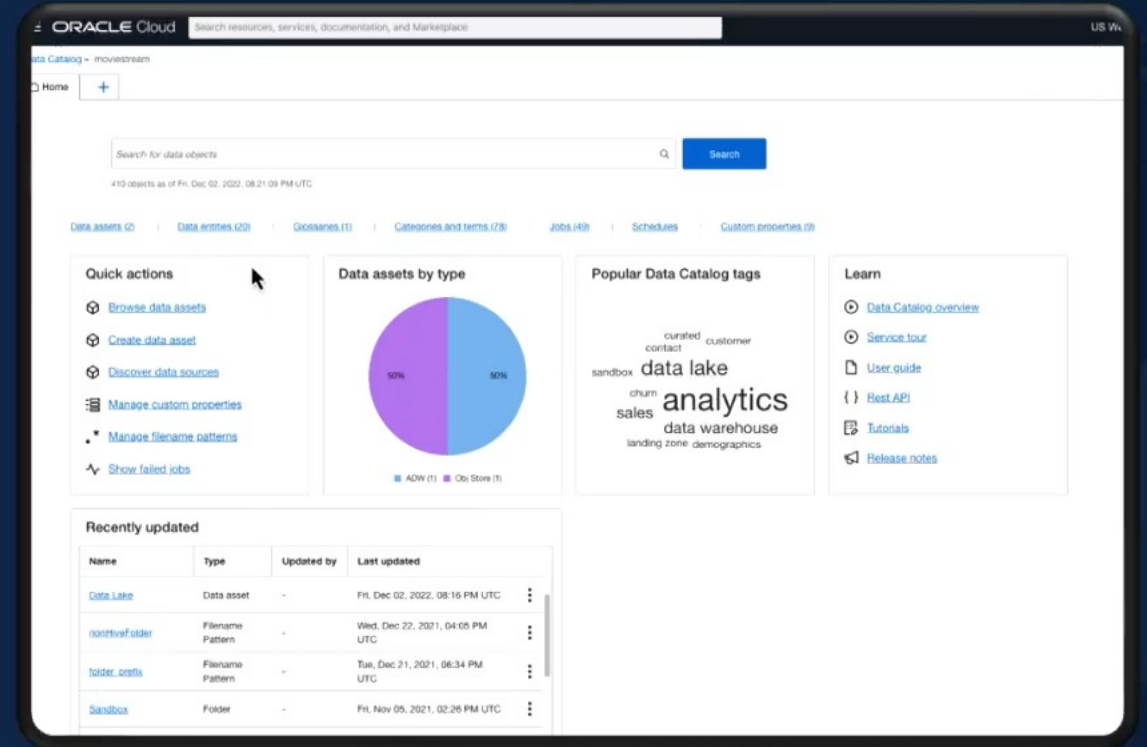
- Property graphs
- RDF graphs
- Community detection
- Ranking and walking
- Evaluating community
- Path finding
- Link prediction

<https://bit.ly/adb-demos>

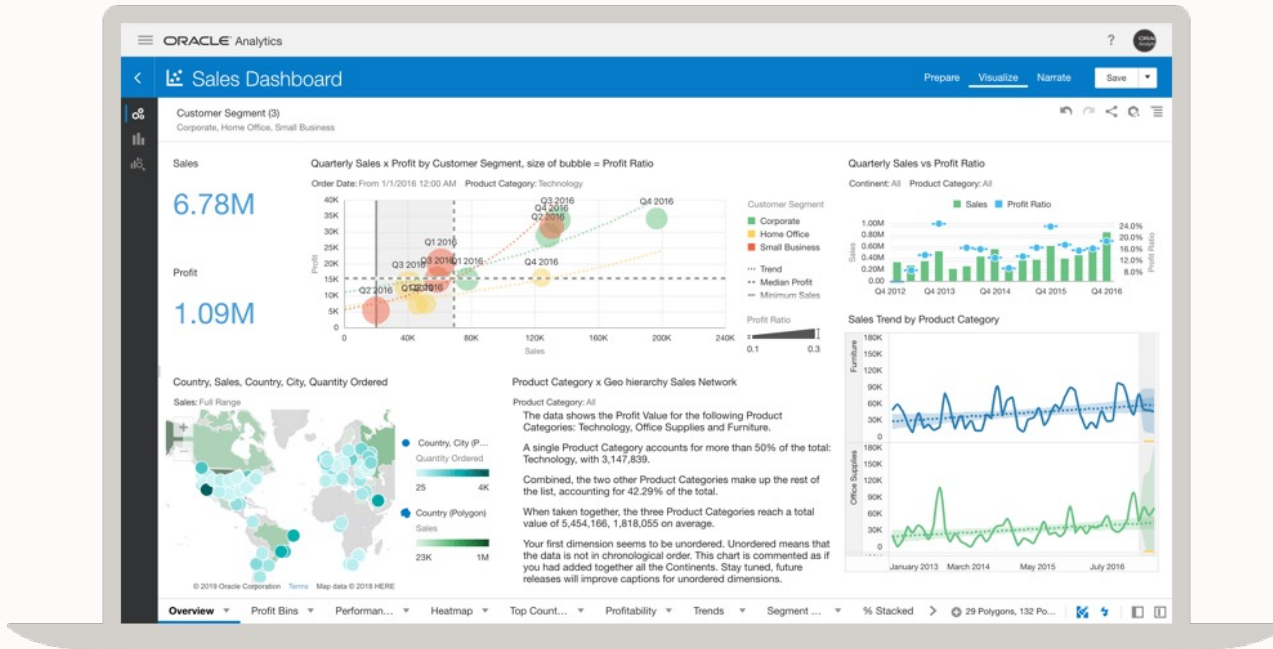


ORACLE AUTONOMOUS DATABASE

Discover and analyze new data sets



Analytics tools: freedom of choice



Certified Tools with Autonomous Database

Tableau

SAS

Looker

Microstrategy

SAP Business Objects

Alteryx

Microsoft Power BI

Qlik

Cognos

Tibco

<https://www.oracle.com/database/adw-cloud-tools.html>

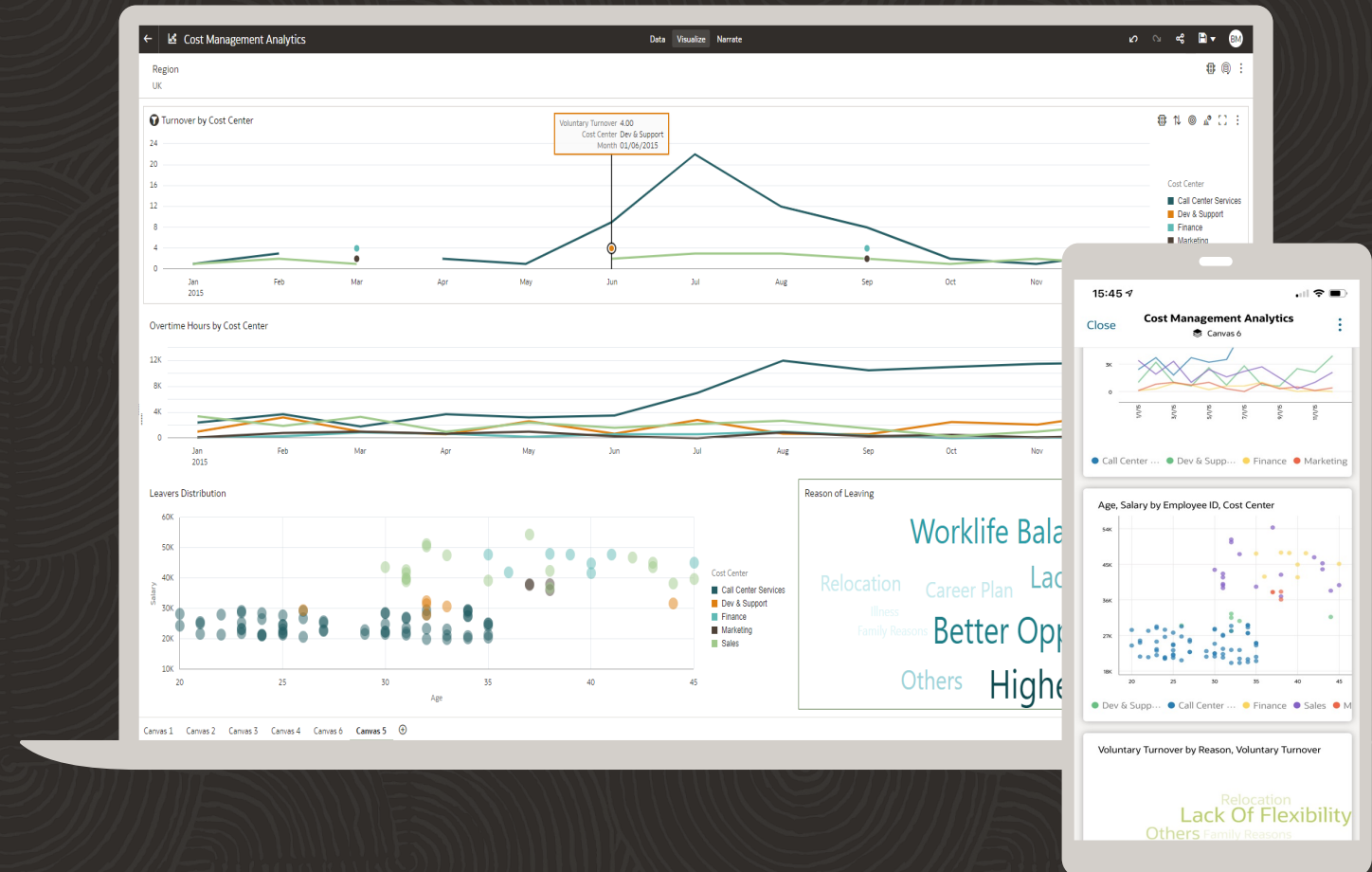
Simple, interactive analytics

Oracle Analytics Cloud

Create and consume;

- Highly stylized interactive dashboards
- Parametrized dashboards
- Pixel-perfect reports
- Visualizations embedded into other apps

Experience continuity across browser and mobile app

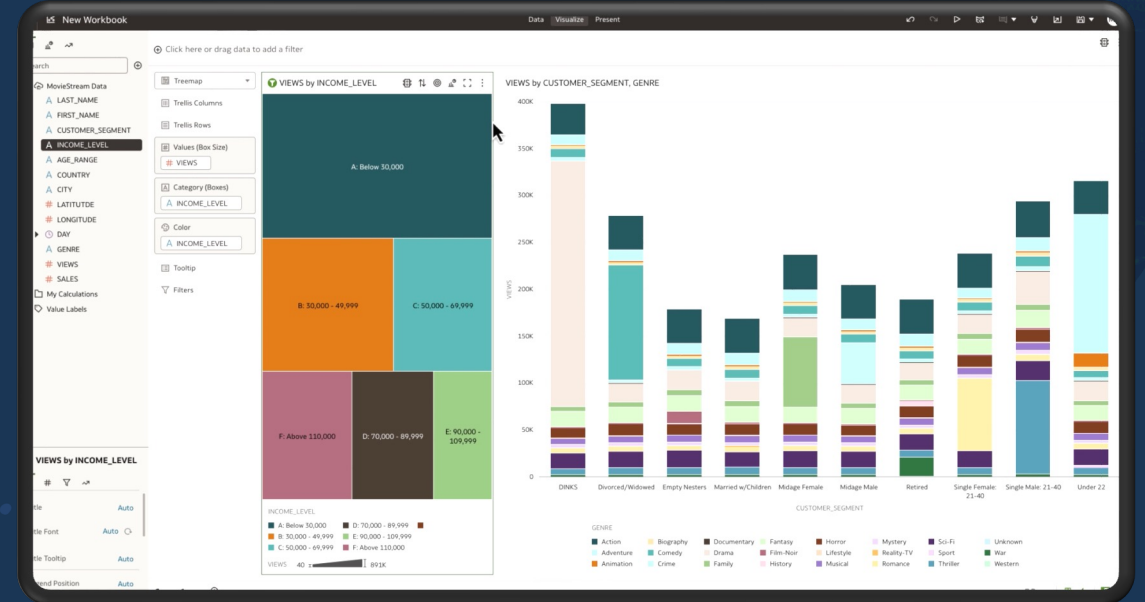


<https://bit.ly/adb-demos>



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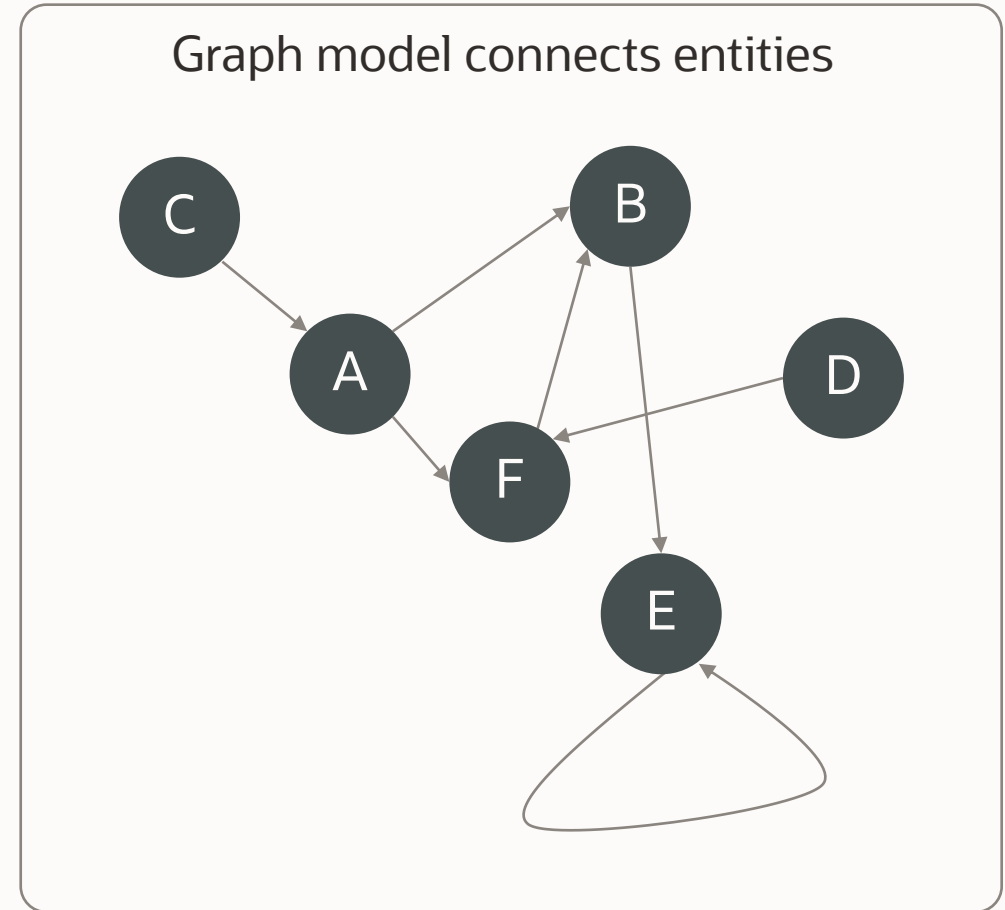
Interactive
dashboards
simplify
insights



Graphs: A powerful way to derive insights from connections

How are graphs used?

- Community detection
- Influencer analysis
- Fraud prevention
- Physical networks, supplier networks, ...
- Dependency graphs
 - Part hierarchies, data lineage, org charts, ...
- Workflows
- ... so much more



Use Graph analytics

Use SQL-like PGQL

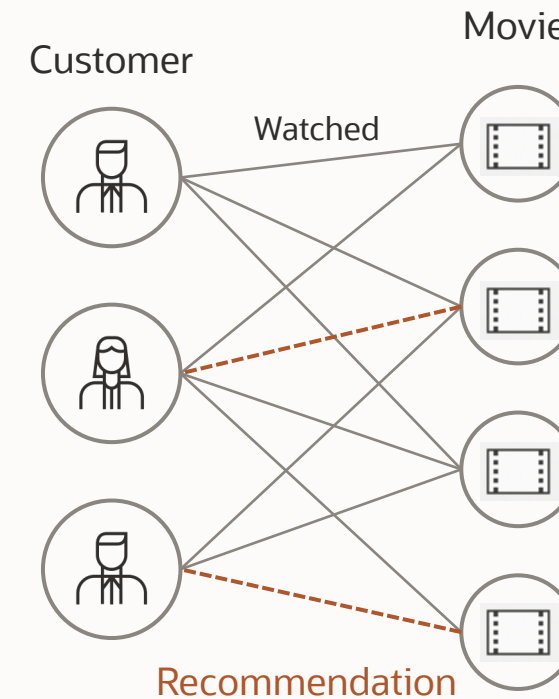
- Search for surrounding nodes
- Traverse property paths
- Pattern matching
- Extract sub-graphs

Execute graph algorithms (over 60 available)

- Community detection, influencer analysis
- Ranking and walking
- Structure evaluation
- Path finding
- Link prediction

MovieStream Product recommendation

Predicting links based on ranking and walking

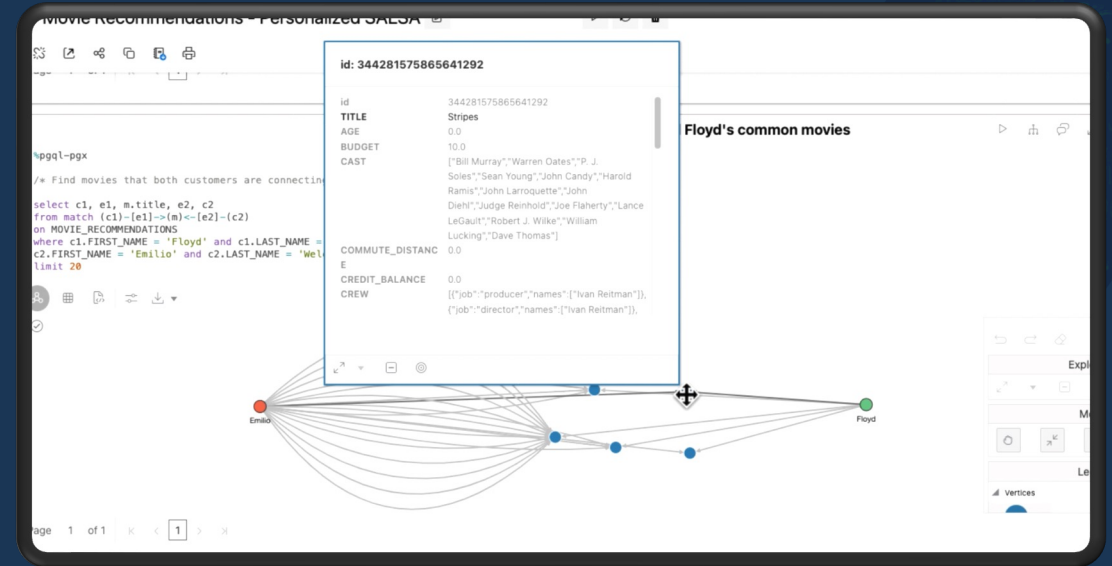


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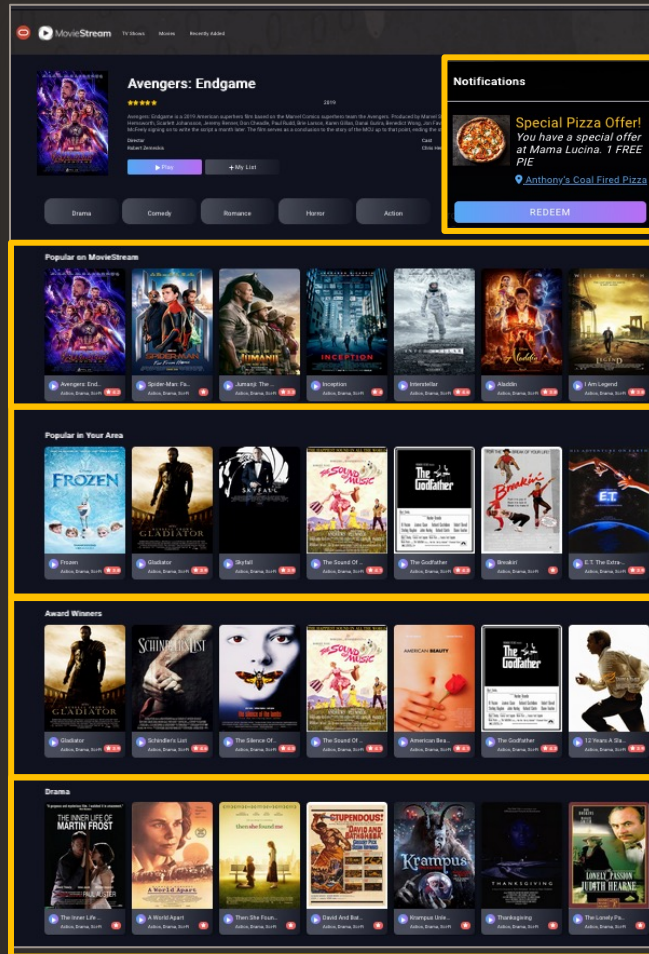
ORACLE AUTONOMOUS DATABASE

Make better recommend -ations



And that's how Oracle MovieStream was built

Simplify deep analytics to produce better results



➤ **Machine Learning + Spatial Analytics**
Predict churn and localize an offer

➤ **Analytic SQL**
Rankings over recent transactions

➤ **Analytic SQL + Spatial**
Rankings refined based on location

➤ **JSON Analytics**
Query complex JSON data types

➤ **Graph Analytics**
Recommendations using sophisticated graph algorithms

Summary



Simplify

1

Use more data - integrate data from any source

2

Do more with data to produce better results

3

Sleep better knowing your platform is always performant, always available and always safe



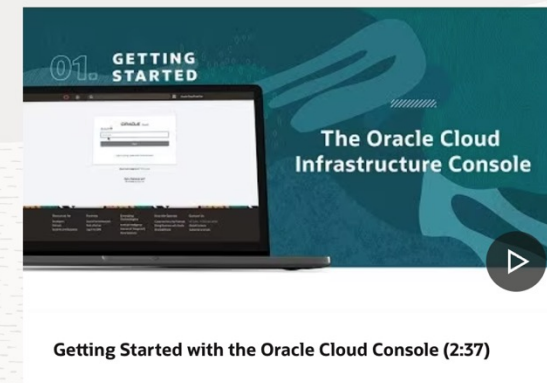
ORACLE

Oracle Autonomous Database

Important links that you will want to bookmark

Get Autonomous Database for free

Build, test, and deploy free Oracle Autonomous Database instances for an unlimited time with Always Free services. In addition, get a US\$300 cloud credit and try a wide range of Oracle Cloud services free for 30 days.

[Start for free](#)

What's included with Oracle Cloud Free Tier?

Always Free services

Services you can use for an unlimited time.

- Two Oracle Autonomous Database instances with powerful tools, such as Oracle APEX and Oracle SQL Developer
- Two AMD Compute VMs
- Up to four instances of Arm Ampere A1 Compute with 3,000 OCPU hours and 18,000 GB hours per month
- Oracle Cloud Infrastructure (OCI) Block Storage, OCI Object Storage, and OCI Archive Storage; OCI Load Balancer and data egress; OCI Monitoring and OCI Notifications



Start with a US\$300 cloud credit

You'll have 30 days to use it—in addition to Always Free services.

- Access to a wide range of Oracle Cloud services for 30 days, including databases, analytics, compute, and OCI Container Engine for Kubernetes
- Up to eight instances across all available services
- Up to 5 TB of storage

[Start for free](#)

1

Sign-up for a free Oracle Cloud Account

bit.ly/adb-free-trial



The Autonomous Database Insider

Information, tips, tricks and sample code for data management in an autonomous, cloud-native, data-driven world



Keith Laker

Senior Principal Product Manager



Marty Gubar

Director Product Management

There's plenty of material to help you get started and be successful with Autonomous Database. We will keep this post updated with new information as it becomes available – so watch this space!

Try the 15 minute Quick Start Workshop

Deploy your first Autonomous Database and run queries **in just 15 minutes!** Oracle LiveLabs provides a great platform to help you get started with Oracle Cloud. You can run LiveLab workshops in your own tenancy or Oracle will provide a free sandbox for you. In this quick start, you will provision an Autonomous Database instance that is optimized for data warehousing workloads, load data from Oracle Object Storage and then run queries using Oracle SQL.

[Try the Quick Start Workshop](#)



Learn more with the Getting Started Workshop Series

Get hands-on experience with Oracle Autonomous Database and its rich capabilities. The **Getting Started workshop series** introduces a range of topics, from basic provisioning and data loading to performing advanced analytics using SQL, machine learning, graph and spatial. The workshop series also highlights administrative features, like performance monitoring, auditing, masking, security assessments and more.

[Go to the Getting Started workshop series](#)

Check out the Getting Started Guide

The **Getting Started guide** provides you with the key documentation, tutorials, videos and other resources needed to be successful. Build out your solution using dashboards.



2

Review complete guide to getting started

bit.ly/get-started-adb

Visit our library of free workshops

[illegible]

4

Watch our series of how-to demo videos

bit.ly/adw-demos

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ORACLE

Products Industries Resources Customers Partners Developers Events Company



View Accounts



Contact Sales

See how to put all your data to work

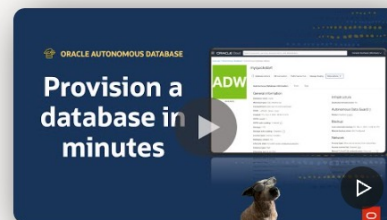
Say goodbye to data silos and specialized engines that complicate your life. See for yourself how Oracle Autonomous Database helps you achieve the best business outcomes by simplifying your data platform.

- Integrate any data from anywhere
- Empower innovators with integrated, self-service analytics
- Develop smarter applications the way you want
- Take advantage of a platform that is always ready, always secure



Integrate any data from anywhere

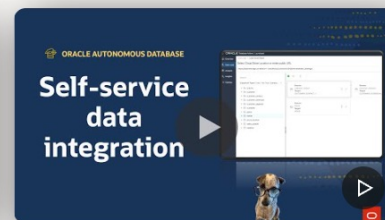
It's easy to integrate any data from anywhere. See how to spin up an Autonomous Database and then load or link to data from a variety of sources.



Create a database and tour the service

Deploy a complete, fully automated data management platform of any size that supports any type of workload. (3:14)

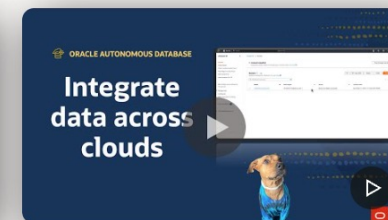
[Try it on LiveLabs!](#)



Simplified data integration

Integrate data from many sources, including spreadsheets, databases, applications and data lakes. (2:00)

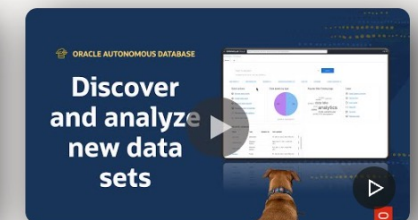
[Try it on LiveLabs!](#)



Securely integrate data across clouds

Load data from partners' cloud stores using the native security measures of each cloud vendor. (3:28)

[Learn more!](#)



Discover and analyze data lakes

Discover data lake assets with OCI Data Catalog and then automatically query and analyze those sources. No additional management is required. (5:56)

[Try it on LiveLabs!](#)

Important links for you to bookmark

Links to get you started and to make sure you keep up to date with everything related to Autonomous Database

1

**Sign-up for a
free Oracle
Cloud Account**

bit.ly/adb-free-trial

2

**Review complete
guide to getting
started**

bit.ly/get-started-adb

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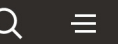
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4

**Watch our series
of how-to
demo videos**

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The Autonomous Database Insider

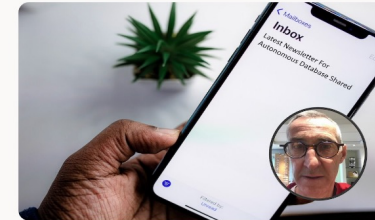
Information, tips, tricks and sample code for data management in an autonomous, cloud-native, data-driven world

Newsletter



Even more new features added to Autonomous Database in April

[Keith Laker](#) | 6 minute read



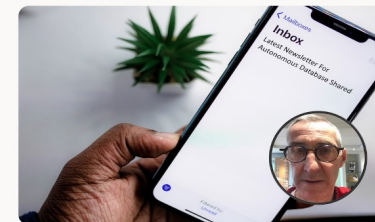
ADB Newsletter for March 2023

[Keith Laker](#) | 51 minute read



ADB Newsletter for February 2023

[Keith Laker](#) | 68 minute read



Autonomous Database - a look back at 2022

[Keith Laker](#) | 115 minute read



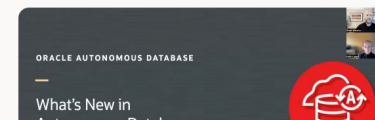
ADB Newsletter for November

[Keith Laker](#) | 50 minute read



November's edition of our regular YouTube recording for "What's New"

[Keith Laker](#) | 1 minute read



September's edition of our regular

5


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"what's new"
announcements


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6

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LinkedIn to chat
about ADB

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→ 🔔 ✎ ⋮

Oracle Autonomous Database

Public group

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Keith Laker • You

Senior Principal Product Manager, Autonomous Database and Analytic SQ...

★ Admin • 3h • 🌐

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Newsletter

Autonomous Database Newsletter

Newsletter for all the latest new features in Autonomous Database

By Keith Laker, Senior Principal Product Manager, Autonomou...
Published biweekly

View



Like



Comment



Repost



Send

Including Shankar Somayajula and 1 other connection



Invite connections

Show all →

Analytics

Last 15 days activity

60
Active members

8
New members

2
Posts

162
Post views

Show all →

7

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OracleADW-PM

388 Tweets

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Keith Laker - part #Oracle product manager for #Autonomous #DW, part runner 🏃, part 🧑‍🌾, part barista ☕. Note tweets are not official Oracle statements

📍 San Francisco, CA 📅 Born January 1, 1965 📅 Joined August 2018

23 Following 348 Followers

Tweets Replies Media Likes

OracleADW-PM @AutonomousDW · May 5

Check out the latest article in my newsletter: Join us for our new Autonomous Database Learning Lounge! linkedin.com/pulse/join-us-... via @LinkedIn

linkedin.com

Join us for our new Autonomous Database Learning Lounge!

Join us next week for our new Autonomous Database Learning Lounge webcasts! Make sure you register today at ...

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OracleADW-PM @AutonomousDW · May 4

Autonomous Database gives us a faster, smarter way to analyze your OCI logging data.... oracleautonomoussdb.substack.com/p/sql-access-t-...

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SQL.ProductManager.Oracle.Databases @thatjeffsmith · 25m

I needed a trigger warning @StackOverflow

On an average day, how much time do you typically spend answering questions you get asked at work?

☐ Less than 15 minutes a day
☐ 15-30 minutes a day
☐ 30-60 minutes a day
☐ 60-120 minutes a day
☒ Over 120 minutes a day

Back Next

2 173

Connor loves SQL, 🍷 and 🍕 @connor_mc_d · May 8

Nice thing about shops not opening super early in Germany...you get to explore the streets to yourself

19 1,504

SQL.ProductManager.Oracle.Databases @thatjeffsmith · 52m

From the archives: Building a REST API with ORDS, PL/SQL Functions, & Arrays

thatjeffsmith.com

Building a REST API with ORDS, PL/SQL Function...

How can I build a REST API for my database that just returns a simple array populated from a SQL ...

Important links for you to bookmark

Links to get you started and to make sure you keep up to date with everything related to Autonomous Database

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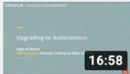
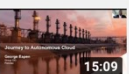
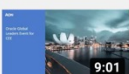














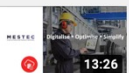




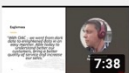


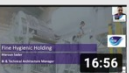

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**Got a question?
We are on
stackoverflow**

bit.ly/adb-stackoverflow

Get ideas and inspiration for your next project with Autonomous

Hear how our customers are using the power of Autonomous Database to do more

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Open Q&A



Final thoughts

Main Autonomous Database site

oracle.com/autonomous-database

Autonomous Datawarehousing Blogs

blogs.oracle.com/datawarehousing

Site containing demos of ADB features

bit.ly/adb-demos

Autonomous Database Newsletter

bit.ly/adb-news-linkedin

Autonomous Database LiveLabs Workshop

bit.ly/adb-workshops

Autonomous Database Getting Started documentation

bit.ly/adb-getting-started-doc

Latest features of Autonomous Database

bit.ly/adb-latest-features

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This session: <https://asktom.oracle.com/pls/apex/asktom.search?oh=21022>

Session Resources

- [Oracle Autonomous Database main site](#)
- [Autonomous Database up-to-date summary of features](#)
- [Autonomous Database Blogs and Newsletter](#)
- [Autonomous Database NewsLetter on LinkedIn](#)
- [Autonomous Database feature demos](#)
- [LiveLabs Workshop Series: Get Started with Autonomous Database](#)
- [Move your Oracle Database to the Cloud with Oracle Database Cloud Migration](#)
- [Under the hood of Oracle Autonomous Database: YouTube 45min video](#)

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All

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Autonomous Database changes the way you build smart applications. Learn... May 10 2023 14:00:00 UTC	Autonomous Database changes the way you build smart applications. Learn... May 9 2023 16:00:00 UTC

Next Sessions



Thank you por joining today's call !!!

Upcoming Sessions:

- Data Studio: Self-Service tools for Autonomous Database
- Data Sharing for Autonomous Database