



#GlobalAzure
#GlobalAzureMilano

Multi-cloud App Dev for Developers with Microsoft Azure and Oracle Cloud Infrastructure

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ORACLE



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Juarez Barbosa Junior

Senior Principal Java Developer Evangelist

- Coming from Dublin, Ireland
- 20 years of experience in SW Engineering & DevRel
 - Oracle, Microsoft, IBM, Nokia, Unisys, Accenture, startups
 - Microsoft Azure Developer Relations Lead
 - IBM Watson Tech Evangelist & Cloud Rockstar
 - IBM Mobile Tech Evangelist & Global Thought Leader
 - Nokia Developers Global Champion
 - Java, Python, Cloud, DevOps, SRE, Cloud-native, IoT, AI, Blockchain, Rust
- Speaker at conferences
 - Oracle CloudWorld, Oracle Code, Microsoft Ignite, Microsoft TechX, jPrime, JCON, DevConf.cz, GeeCon, DevOpsDays, DeveloperWeek, DevOps Institute, CloudLand, DWX, The Developer's Conference (TDC), Sec4Dev, JSNation, NodeConf, Conf42, Shift Conf, Global Azure, Open-Source Lisbon, CodeFrenzy, Mêlée Numérique, React Summit, Test.js Summit, Porto TechHub Conf, Pyjamas, MiTechCon, JUGs, meetups, etc.

OCI has all the services you need to build, run, and scale

Infrastructure, platform, and SaaS in one cloud

Oracle Applications

Industry | ERP | EPM | SCM | HCM | ACX

Custom Applications

Polyglot | Traditional | Cloud Native

ISV Applications

Hundreds to choose from



Developer
Services



Containers and
Functions



Integration



Analytics and BI



Machine Learning
and AI



Big Data and
Data Lake



Compute



Storage



Networking



Oracle
Databases



Open Source
Databases



Operating Systems,
Native VMware

Security | Observability | Compliance | Messaging | Governance

OCI's Distributed Cloud

Public Cloud

Hybrid Cloud: Cloud@Customer

Dedicated Cloud

Multicloud: Azure, AWS

Oracle meets you where you are with a distributed cloud strategy

Multicloud

Our products work with your other providers, including Oracle Database Service for Azure, Oracle Interconnect for Azure, and Oracle MySQL Heatwave on AWS

Public cloud

Access cloud services in 41+ global locations including Commercial, US Government, UK Government, US National Security Regions, and European Sovereign (2023)



Hybrid cloud

We bring cloud services to you, including Oracle Exadata Cloud@Customer, Oracle Roving Edge Infrastructure, Compute Cloud@Customer, OCI Observability and Management, and Oracle Database

Dedicated cloud

We build a cloud just for you, with all 100+ OCI services running in customer data centers, including OCI Dedicated Region and Oracle Alloy



Oracle Database runs best on OCI

Unique capabilities only available on Oracle Cloud Infrastructure

Ease of use



Oracle
Autonomous
Database

Fastest performance



Oracle Exadata

**High
availability**



Oracle Real Application
Clusters (RAC)

**Complete
Protection**



Oracle Database Zero
Data Loss Autonomous
Recovery Service

**Converged database
built for innovation**

ORACLE

What if you could combine the best of Microsoft Azure, and the best of OCI and Oracle Database in the cloud?



Power BI



Synapse Analytics



Kubernetes Services



App Services



Insight clusters



Data Lake Analytics



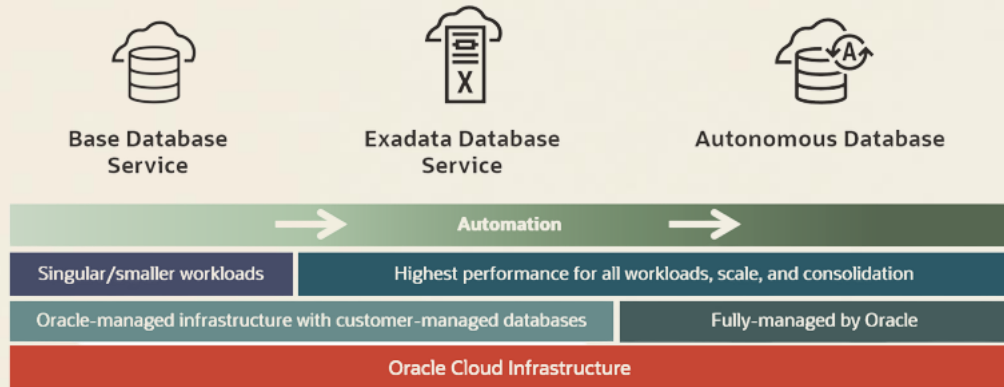
Cognitive Services



IoT Central



Azure Databricks

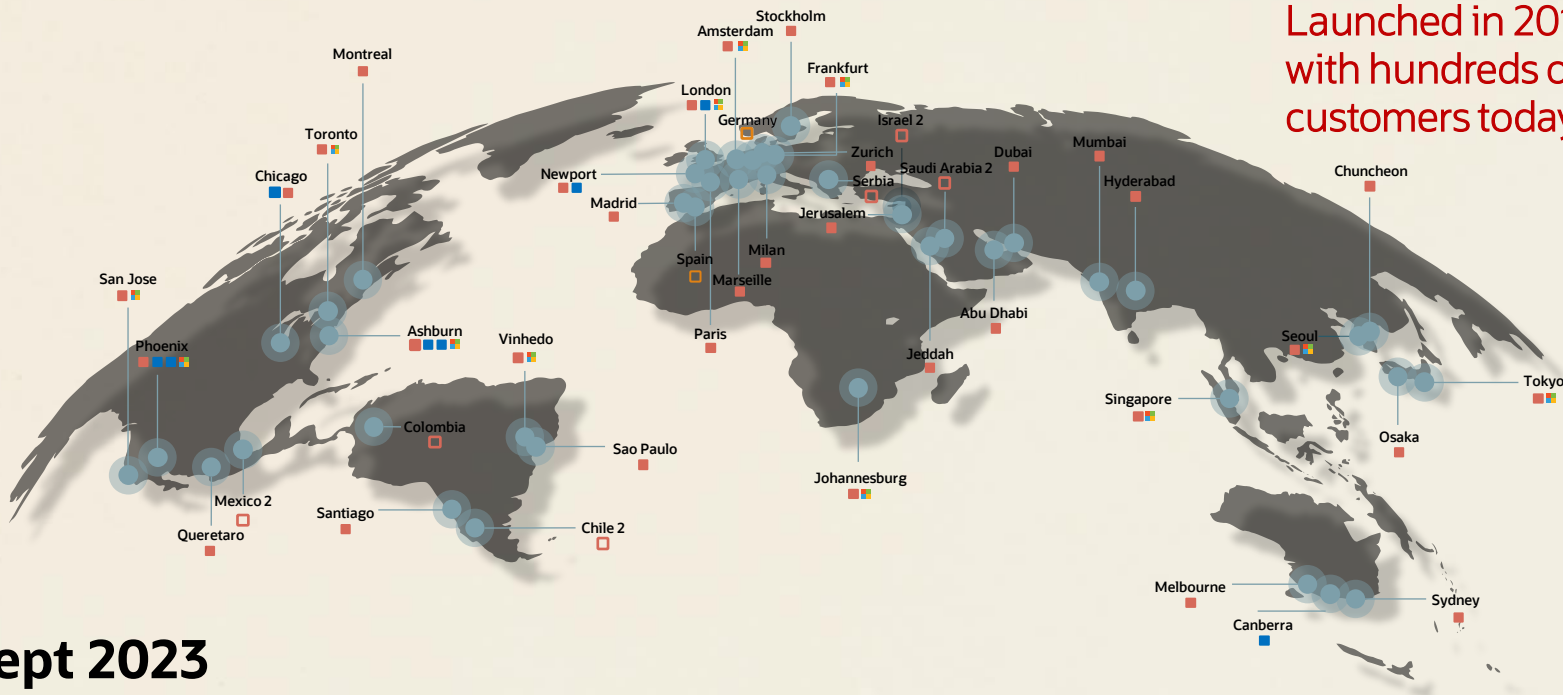


...and so much more.



The OCI-Azure Interconnect created the network foundation

Launched in 2019,
with hundreds of
customers today



Sept 2023

45 Oracle Cloud Regions + **7** planned

12 Interconnect for Azure regions

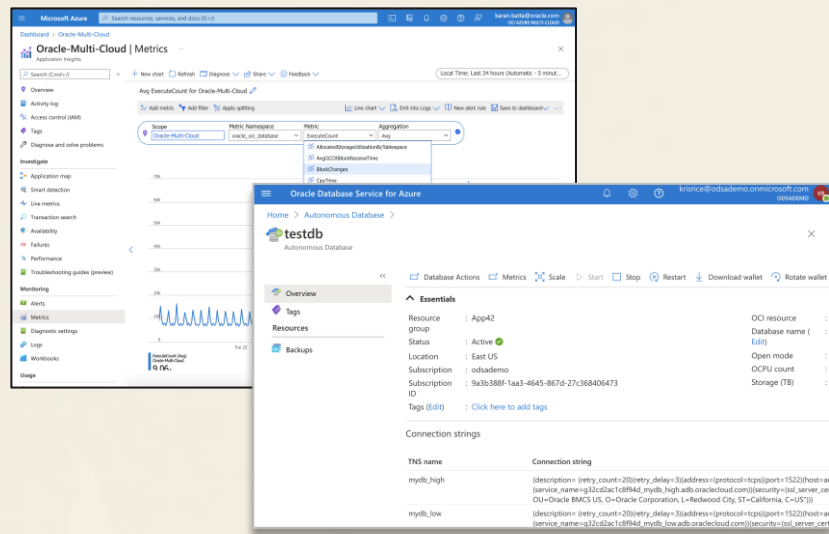
■ 35 Commercial □ 7 Commercial Planned ■ 8 Government
■ 2 Sovereign Planned ■ 12 Microsoft Azure Interconnect



The Oracle Database Service for Azure

An OCI managed service that enables customers to easily provision and manage Oracle databases running on OCI using a familiar Azure-like GUI/user experience.

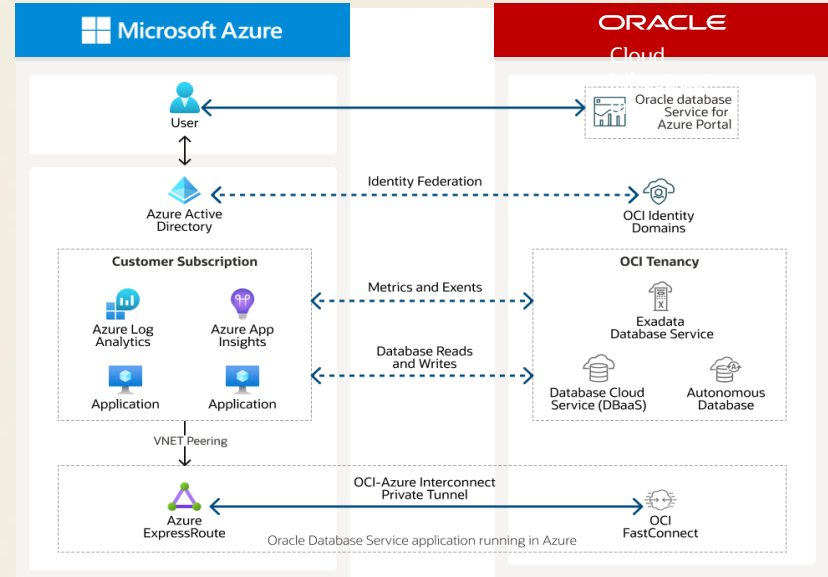
- Connect Azure and OCI
- Provision an Autonomous Database (ADB)
- Use your ADB like an Azure resource
- OCI manages Azure to OCI networking



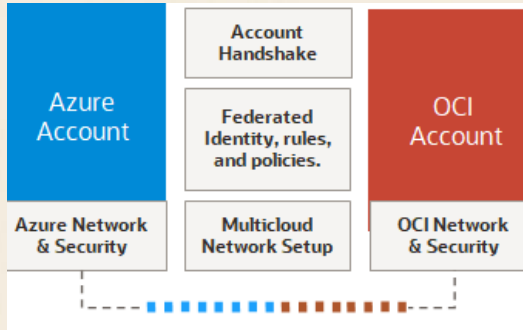
Oracle Database Service for Azure (ODSA)

A SIMPLER, MORE POWERFUL MULTICLOUD ARCHITECTURE

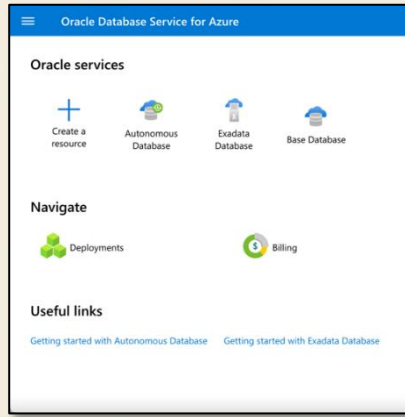
- Run apps on Azure and Oracle Databases on OCI
- Zero downtime, high availability with native Oracle RAC on Exadata
- < 2 ms latency private interconnect – suitable for nearly any application
- No egress or ingress fees for data
- Scales up to 31 PB data warehouses and 10 million+ SQL IOPs
- Familiar Azure-native like user experience
- Simple connectivity from Power BI to Oracle Database cloud services (coming soon)
- Automated identity, networking, and monitoring integration



How does the Oracle Database Service for Azure work?

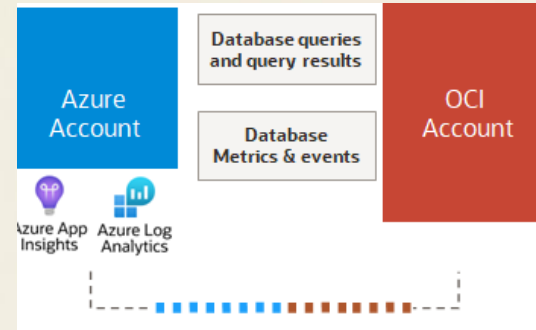


Guided cloud to cloud setup and configuration



Provision and operate Oracle DBs

- Configure
- Deploy
- Automated Backup
- Restore from backup
- Manual Backup
- License Management
- User roles and Autoscailing permissions
- Database Actions



Database access and managed connectivity



Oracle Autonomous Database on ODSA

ODSA PORTAL

The screenshot displays the Oracle Database Service for Azure portal interface. At the top, a blue header bar contains the text "Oracle Database Service for Azure" and navigation icons. Below the header, the page is organized into three main sections:

- Oracle services:** This section features four icons: "Create a resource" (a plus sign), "Autonomous Database" (a database icon with a green checkmark, highlighted with a red border), "Exadata Database" (a server rack icon), and "Base Database" (a database icon).
- Navigate:** This section includes four navigation options: "Deployments" (a green cube icon), "Billing" (a green circle with a white dollar sign), "Subscription Management" (a yellow key icon), and "Support" (a blue person icon with a speech bubble).
- Useful links:** This section lists four links: "Getting started with Autonomous Database", "Getting started with Exadata Database", "Getting started with Base Database", and "All ODSA Database documentation".

Oracle Autonomous Database on ODSA

PROVISIONING

The screenshot displays the 'Create Autonomous Database' configuration page in the Oracle Database Service for Azure console. The page is titled 'Create Autonomous Database' and has a close button (X) in the top right corner. The navigation tabs are 'Basics', 'Configuration' (selected), 'Networking', 'Security', 'Tags', and 'Review + create'. The configuration options are as follows:

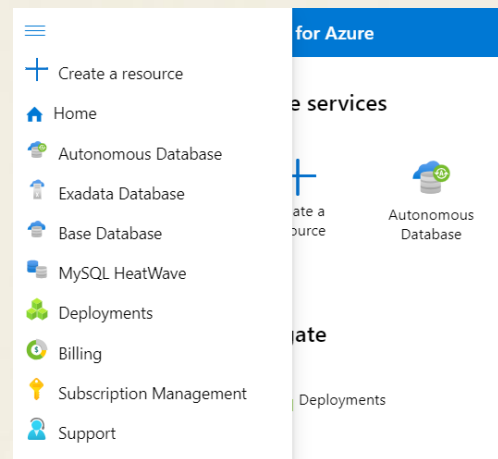
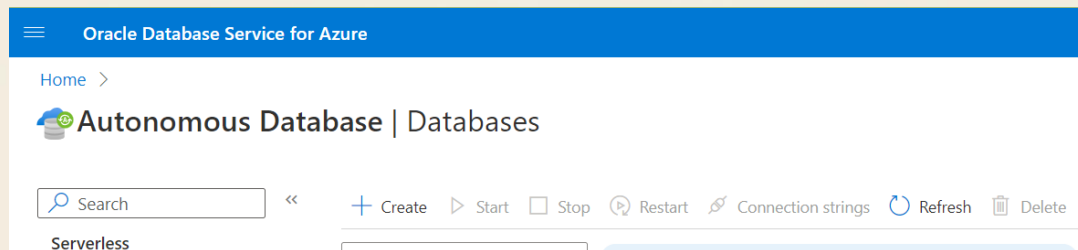
- Workload type ***: Data Warehouse (dropdown)
- OCPU count**: 1 (dropdown)
- OCPU auto scaling**: (checkbox)
 - Info**: Allows system to use up to three times the number of cores specified by the OCPU count as the workload increases.
- Storage (TB)**: 1 (dropdown)
- License type ***:
 - License included
 - Bring your own license (BYOL)
 - Info**: **License included** - Subscribe to new Oracle Database software licenses and the Database service. **Bring your own license (BYOL)** - Bring my organization's Oracle Database software license to the Database service. [Learn more](#)
- Database details**
 - Database version ***: 19c (dropdown)
 - Database name ***: adwfinance (dropdown)

At the bottom of the page, there are three buttons: 'Review + create' (highlighted in blue), '< Previous', and 'Next: Networking >'.

Oracle Autonomous Database on ODSA

Available Features

- Create/Delete
- Start/Stop/Restart
- Manual Scale Up/Down
- OCPU Autoscaling
- Download/Rotate Wallet
- Database Actions
- TLS and mTLS Authentication
- Network Access – Public Access and Access Control List
- Backup/Restore



Appendix

Demo + Technical Resources



Learn More

Oracle Database Service for Microsoft Azure (ODSA) - Announcement

<https://bit.ly/ODSAlaunch>

ADB on ODSA - Blog

<https://bit.ly/ADBonODSA>

Oracle Database@Azure

<https://rb.gy/j2xwu4>

ODSA for Java Developers (Part 5) — Connecting to Oracle ADB from a FaaS App with Oracle JDBC on Azure Functions @ Oracle Developers

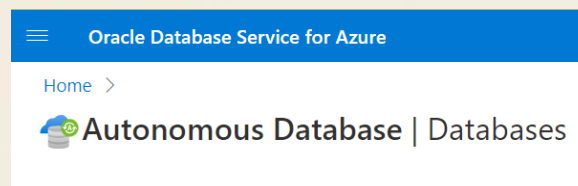
<https://bit.ly/403l38b>



Key Takeaways: Oracle Database Service for Azure

SUBHEADS SHOULD BE SET IN ALL CAPS

- The Oracle Database Service for Azure (ODSA) empowers Azure customers and applications with full access and integration to OCI database services
- It provide a unified portal and UX design as a single-pane-of-glass, backed by a 40Gbps high-speed connection between twelve (12) Azure and OCI data center regions
- It allows the integration with Azure Active Directory to simplify access and authentication
- Azure customers can leverage today:
 - Oracle Autonomous Database
 - Exadata Database Service
 - Base Database Service
 - MySQL HeatWave



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Thank
you



ORACLE

Oracle Database 23c

Free Developer Release



<http://oracle.com/23cFree>

- Oracle Database 23c accelerates Oracle's mission to make it **simple** to develop and run all data-driven apps
- Provides developers easy early access to 23c app dev features
- Limited database size, memory, CPU threads (same limits as Express Edition)

**Oracle Database 23c Free – Developer Edition
available for download now**



<http://oracle.com/23cFree>



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Nominate
yourself or a candidate:

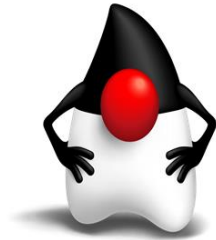
ace.oracle.com/nominate



Create your FREE Cloud Account

- Go to <https://signup.cloud.oracle.com/>

ORACLE
Cloud Infrastructure



A screenshot of the Oracle Cloud Infrastructure sign-up page. The page has a dark header with the Oracle logo and "Cloud Infrastructure". Below the header, there's a section titled "Oracle Cloud Free Tier" with a red underline. A green box contains the text "Get started with..." followed by "Always-Free access to essential services including:" and a list of services: Autonomous Database and Object storage. Below that, it says "Plus, \$300 of credits for 30 days to use on even more services:" and lists: Container Engine for Kubernetes, Analytics Cloud, and Data Integration. On the right side, there's an "Account information" section with input fields for "Country/Territory" (United States), "First Name", and "Email". Below these is a "I am human" checkbox with a green checkmark. At the bottom right, there is a "Verify my email" button highlighted with a red border. At the very bottom right, there is a "Terms of Use" link.