












ORACLE

Oracle Database Service for Microsoft Azure

July 2022










What if you could combine the best of Microsoft Azure,

-  **Stream Analytics**
-  **Synapse Analytics**
-  **Kubernetes Services**
-  **App Services**
-  **Insight clusters**
-  **Data Lake Analytics**
-  **Cognitive Services**
-  **IoT Central**
-  **Azure Databricks**

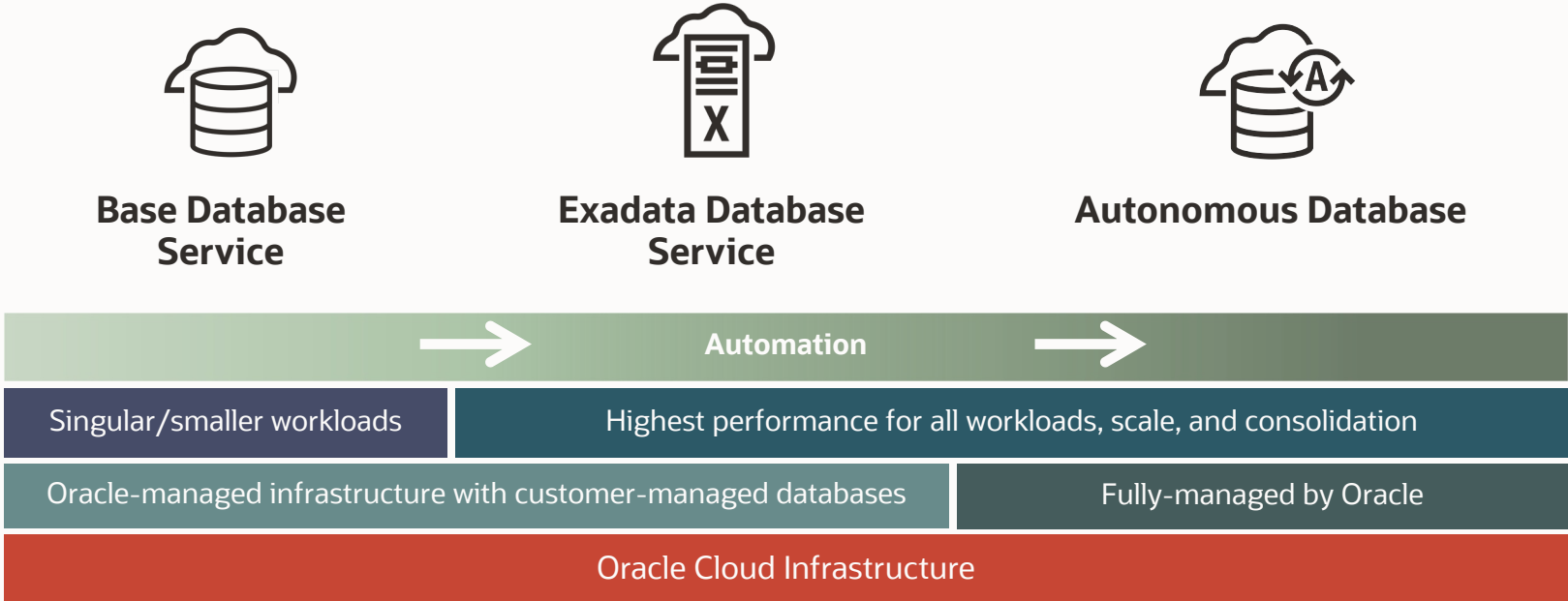
...and so much more.

 Microsoft Azure

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

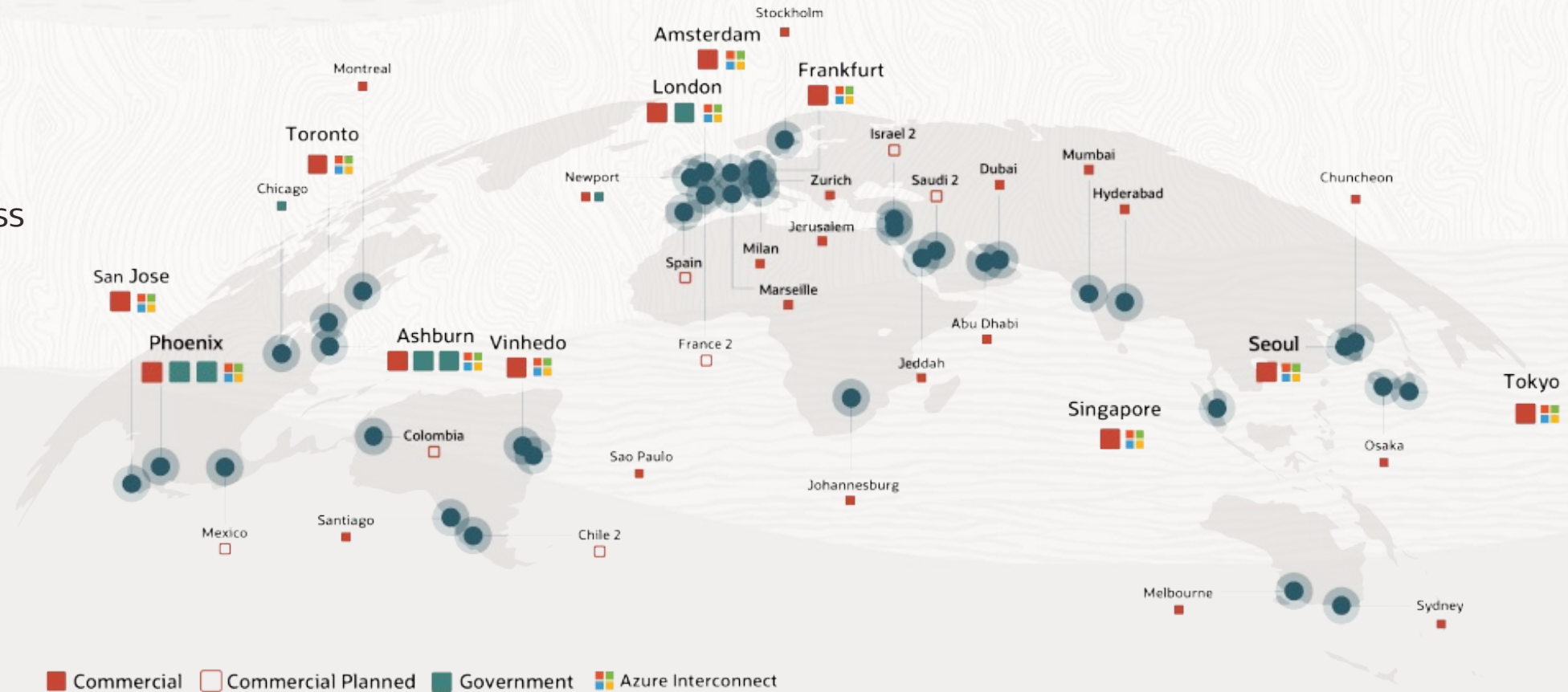
-  Stream Analytics
-  Synapse Analytics
-  Kubernetes Services
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-  IoT Central
-  Azure Databricks

...and so much more.



The OCI-Azure Interconnect created the network foundation

- 11 global regions to date
- < 2 millisecond latency private interconnection
- No egress or ingress charges for data
- End-to-end secure encrypted tunnel



OCI-Azure Interconnect customer successes

15%

Cost Savings

- Achieving latency as low as 1.1ms
- Implementation took 1/3 of allotted time¹

colt
Data Centre Services

600%

Better Performance

- Use 50% fewer CPUs with Oracle Autonomous Database on OCI and Azure Interconnect
- Cut labor and infrastructure costs by half
- Faster, more reliable platform with zero downtime²

MESTEC
MANUFACTURING PERFORMANCE. REDEFINED.

100%

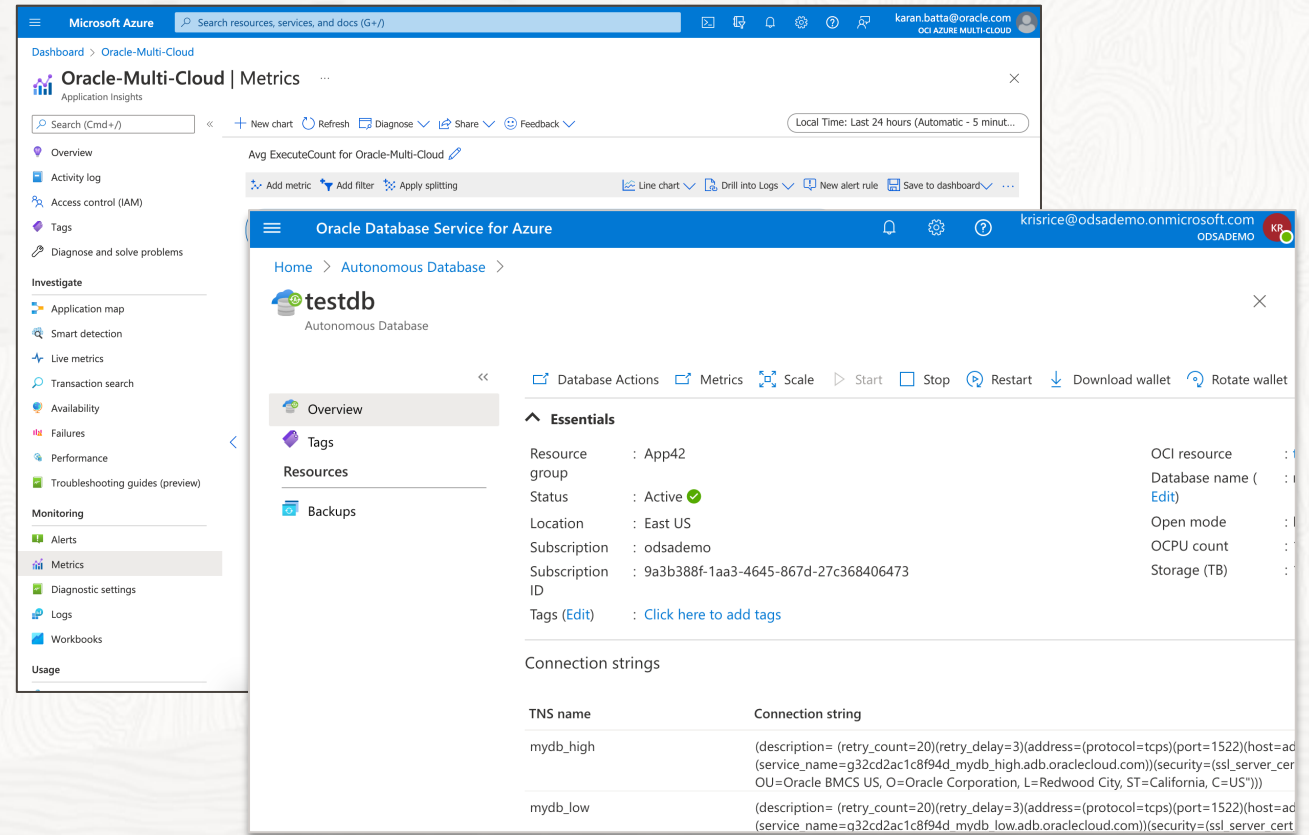
Uptime

- Running Oracle Database using Real Application Clusters on OCI, and connecting to applications via Azure Interconnect
- Met performance demands; lowered costs
- Achieved <1.5ms latency³

SOHO
- media solutions -

Introducing the Oracle Database Service for Azure

An Oracle managed service that enables customers to easily provision and manage Oracle databases running on OCI using an Azure-native API and console experience.



1. Connect Azure and OCI
2. Provision OCI databases
3. Use your OCI database like an Azure resource
4. OCI manages Azure to OCI networking



OCI's portfolio of multicloud and hybrid cloud services



Public / Government Cloud Regions

Hyperscale cloud regions in 39 worldwide locations



Dedicated Regions

All OCI services, running in customer data centers



Exadata Cloud@Customer

Cloud Autonomous Databases, running in your data center



Microsoft Azure Interconnect

Regional low-latency integration for multicloud architectures



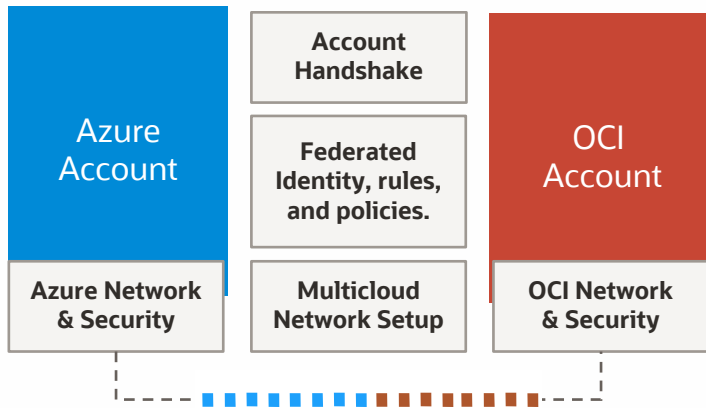
NEW

Oracle Database Service for Azure

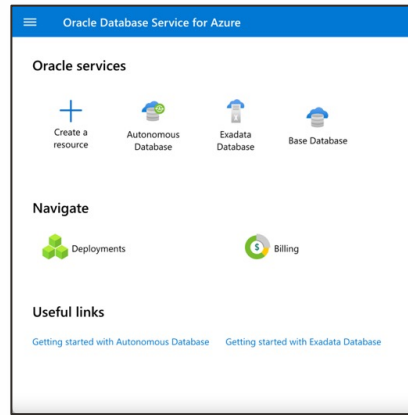
Fully managed service for Azure customers to use Oracle databases on OCI

How does the Oracle Database Service for Azure work?

1 Guided cloud to cloud setup and configuration

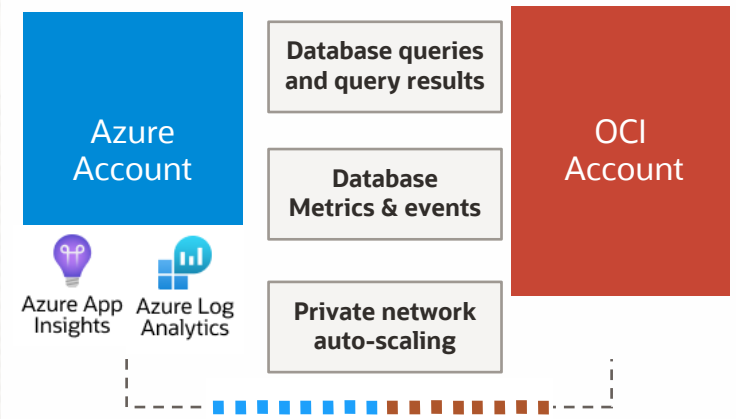


2 Provision and operate OCI Database services



- Configure
- Restore from backup
- User roles and permissions
- Deploy
- Manual Backup
- Automated Backup
- License Management
- Real Application Clusters (RAC)

3 Database access and managed connectivity



Oracle Database Service for Azure benefits



Seamless and secure interoperability

- Familiar Azure-native user experience
- Automated identity, networking, and monitoring integration
- Private interconnect and networking
- Use Microsoft Azure services with OCI databases together
- Collaborative support

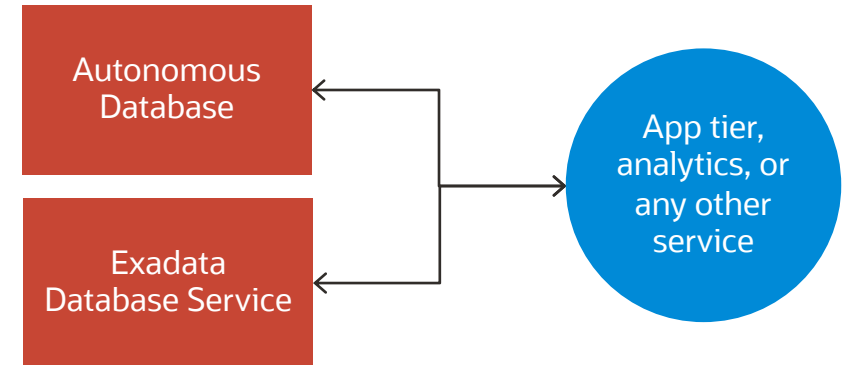


Enterprise-grade cloud services

- < 2 ms latency private interconnect – suitable for nearly any app
- Zero downtime high availability with native Oracle RAC
- Scales up to 31 PB data warehouses and 10 million+ SQL IOPS
- Completely hands-off, multi-modal Autonomous Database

ORACLE
Cloud Infrastructure

Microsoft Azure



Businesses achieve better results running databases on OCI



80%

Reduction in DBA admin tasks

No more

Cost of idle vCPU autoscaling to align usage with actual demand

Always

- ✓ Tuned
- ✓ Patched
- ✓ Secured
- ✓ Encrypted



Faster

than other clouds

- ✓ 25x better latency
- ✓ 384x more SQL throughput
- ✓ 22x more SQL read IOPS

20-30%

Less vCPU needed for same workloads lowers cost

Run

More applications in-memory with expanded capacity using, lower-cost, shared flash

Zero

Downtime maintenance and non-disruptive scaling



Linear

Performance increase with server scale-out

Bring-your-own-license (BYOL) subscriptions include:



- ✓ Transparent Data Encryption (TDE)
- ✓ Data Masking and Subsetting pack
- ✓ Real Application Testing option
- ✓ Diagnostics & Tuning Pack

Run workloads where you choose

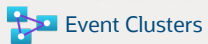
Build with the best of OCI and Azure services

ORACLE
Cloud Infrastructure



Microsoft Azure

Any Azure Analytics



Power BI

Synapse

HDInsights

Event Clusters

Any Azure App



App Services

Kubernetes

Virtual Machines

Functions

Containers

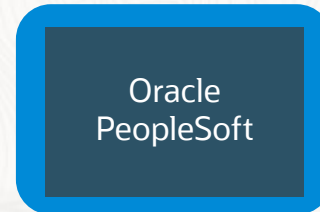
Use fully managed Oracle Databases with Azure

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Cloud Infrastructure



Customer-managed Oracle DB

Microsoft Azure



Oracle PeopleSoft

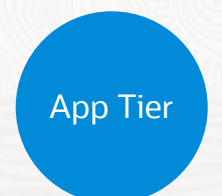
Run exclusive OCI database services with Azure

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Cloud Infrastructure



Exadata Database Machine

Microsoft Azure



App

On-Prem



Oracle Database Service for Azure testimonials



“Having access to data in multiple clouds is something we’ve always wanted. Oracle Database Service for Azure would enable FedEx to use Oracle databases on OCI with big data and analytics capabilities of Azure.”

Rob Carter, Executive Vice President



“Multicloud architectures enable us to choose the best cloud provider for each workload based on capabilities, performance, and price. The OCI and Azure partnership integrates the capabilities of two major cloud providers, including OCI’s Oracle Database services and Azure’s application development capabilities.”

Naveen Manga, CTO



“Oracle Database Service for Azure has simplified use of a multicloud environment for data analytics. We were able to easily analyze large volumes of data hosted by Oracle Exadata Database Service on OCI, using Azure Synapse. We are pleased with the service’s throughput and performance.”

Jane Zhu, SVP & CIO, Corporate Operations

Next Steps

Demo

Deeper tech dive



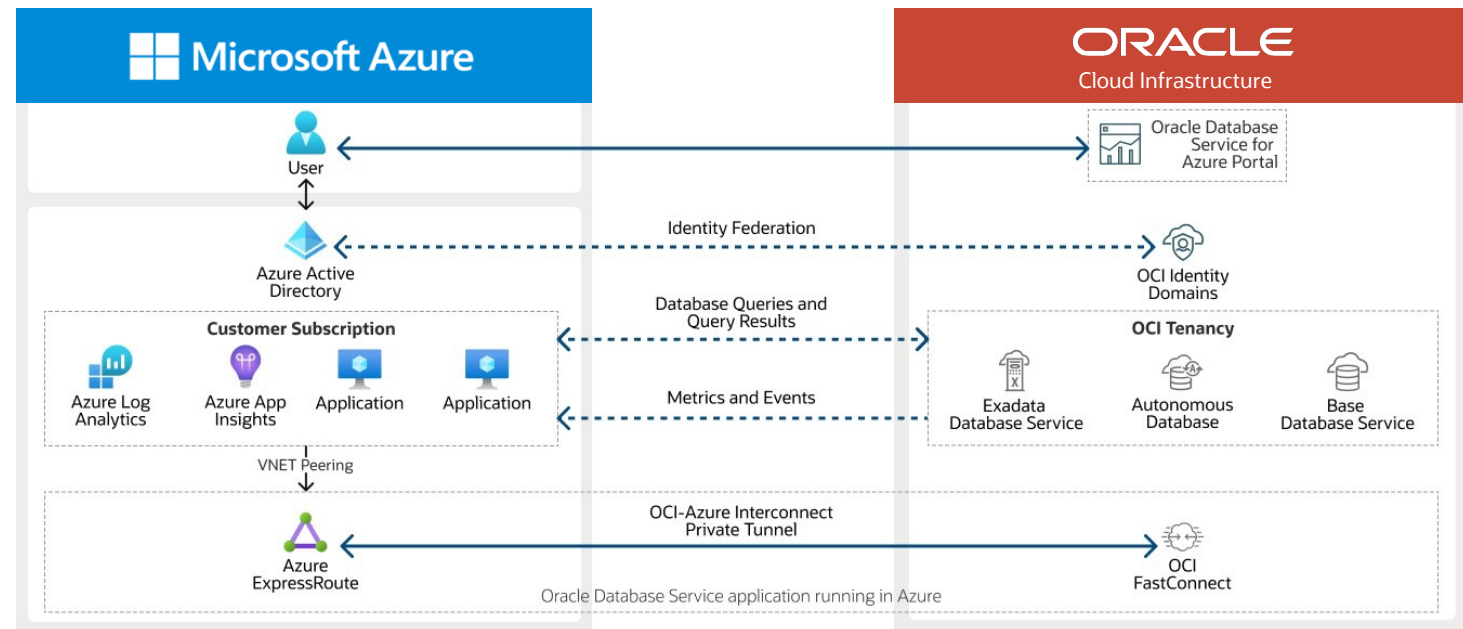
Oracle Database Service for Azure

Familiar Azure user experience

- Automated identity, networking, and monitoring integration
- < 2 ms latency private interconnect – suitable for nearly any app
- No additional cost

Access OCI database services

- Zero downtime high availability with native Oracle RAC
- Scales= up to 31 PB data warehouses and 10 million+ SQL IOPS
- Completely hands-off, multi-modal Autonomous Database



FAQ



What's the difference between the Oracle Database Service for Azure and the OCI-Azure Interconnect?

	Oracle Database Service for Azure	OCI and Microsoft Azure Interconnect
Primary Use	Azure customers who want to connect Azure resources to Oracle Databases on OCI.	Customized bi-directional scenarios. Usable with all OCI and Azure resources.
What is it?	A guided experience to automate and simplify account linkage, user entitlements, and provides a portal on Azure to manage OCI database services with a UX experience familiar to Azure users.	Direct connectivity between OCI and Azure built on Oracle FastConnect and Azure ExpressRoute to create low-latency, high throughput, and redundant connections in 11 regions with unified identity and access management between Azure and OCI.
Support	Collaborative support model (same as interconnect)	Collaborative support model
Network Cost	No interconnection port or ingress/egress charges.	Interconnection ports (FastConnect and ExpressRoute) Zero data ingress/egress charges
Network scaling	Fully managed by OCI	Customer managed in the customer's tenancy
Monitoring	Consolidated metrics and events consumed in Azure App Insights and Azure Log Analytics	Customer managed
Pricing	No cost for Oracle Database Service for Azure. Pay only for Azure and OCI service consumption.	Interconnection ports (FastConnect and ExpressRoute), plus Azure and OCI service consumption

What database features are available in Oracle Database Service for Azure today?

Key capabilities	Oracle Database Service for Azure Portal	OCI Console
Manual Backup	✓	✓
Automated Backup	✓	✓
Restore to existing database	✓	✓
License Management	✓	✓
RAC	✓	✓
Service Requests	✓	✓
Data Guard	Coming soon	✓
Scaling Infrastructure	Coming soon	✓
Autoscaling	Coming soon	✓



Collaborative support

1. Raise issues with Oracle or Microsoft
2. Joint resolution by both cloud vendors
3. Customer approves support organization engagement between Microsoft and Oracle

<https://www.oracle.com/cloud/azure-interconnect/>
Click on collaborative support

