Oracle Autonomous Database

A fully automated database service that makes it easy for all organizations to develop and deploy application workloads regardless of complexity, scale, or criticality.

An autonomous database isa database service in OCI that uses machine learning to automate database optimization, security, backup, updates, and other routine administrative tasks traditionally performed by database administrators. This fully automated service makes it easy for all organizations to develop and deploy application workloads regardless of their complexity, scale or criticality.

The Autonomous converged engine supports diverse data types (text, Json, xml, blockchain) and also various types of (analytical) workloads such as ML/AI, Spatial, Graph and Blockchain. Due to all these options, Autonomous simplifies application development and deployment whether this is from modeling and coding, to ETL, database optimization, and data analysis. Autonomous services are built on Oracle Database and Oracle Exadata infrastructure for the highest performance.

Advantages of Autonomous

- Lower (no) downtime
- Extremely low maintenance cost
- High-performance database (ExaData Infrastructure)

- Auto-Scaling for on-demand performance or cost savings
- Converged database (singleengine for multiple workloads)

Get to know more...

SailGP boosts performance, lowers carbon footprint with OCI

The competitive sailing league uses Oracle Cloud Infrastructure and Autonomous Database to stream race metrics to athletes and fans.

Red Bull Racing Honda leverages powerful analytics to drive to success

To compete and lead in one of the most demanding sports in the world, a winning team like Red Bull Racing Honda relies heavily on data and analytics.

Database Cloud Service Models

Cloud at Customer & Public Cloud

	Roll your own	Database Cloud Service (DBCS)	Autonomous (ADW/ATP)
Recource & Capacity management	👷	👷	✅
Automatic & Instant scaling	❌	❌	✅
Automatic Index Tuning	❌	❌	✅
Database Provisioning	👷	✅	✅
Automated patching	👷	✅	✅
Infrastructure monitoring & Maintenance	👷	✅	✅
Security, Encryption	👷	✅	✅
Oracle RDBMS Installation	👷	✅	✅
Grid Infrastructure & Storage (ASM)	👷	✅	✅
O.S Installation & Configuration	👷	✅	✅
Certified & Integrated hardware selection	👷	✅	✅

Various datatypes (single place for your data management)

Source: Oracle

Introducing Oracle Database Service for Microsoft Azure

Larry Ellison and Satya Nadella have launched Oracle Database Service for Microsoft Azure, bringing the enterprise-grade performance, availability, and automation of Oracle Database to Azure customers.

The Oracle Database Service for Azure builds upon the core capabilities of the OCI-Azure Interconnect and enables any customer to seamlessly integrate workloads on Microsoft Azure with Oracle Database services on OCI. Customers using the service also benefit from having no data egress or ingress charges when moving data between OCI and Azure.

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