ORACLE

Autonomous JSON Database Serverless

All-in-One Datasheet (Beta) Produced by DBExpert

Overview

Oracle Autonomous JSON Database Cloud Service (AJD) optimizes storage and retrieval of JSON documents for faster, more agile database application development. Built upon the Oracle Database, AJD supports familiar tools that support Oracle Database. It is elastic, so you may increase or decrease the OCPUs or increase the storage capacity and the service will scale without incurring any downtime. (Note that storage for non-JSON data is limited to 20 GB.)

Visit the DB Expert Services Taxonomy page to get the latest version of this data sheet and see data sheets for all of the Oracle Cloud Database services.

Deployment

Database Type	Single Database
Management Model	Fully Managed PaaS
Supported Cloud Environments	Oracle Cloud Infrastructure, Oracle Database@Azure and Oracle Database@Google Cloud
SKUs for starting configuration	B99708 (ECPU) B95706 (DB storage) B95754 (backup storage)
DB Versions Supported	Oracle 23ai (Long-term release), Oracle 19c (Long-term release)
Hardware Infrastructure	Shared Engineered System

Usage Models

Recommended Workloads	Data Science / Machine Learning Transaction Processing (OLTP)
Recommended Data Models	Document Store (JSON) NoSQL Text
Certified Oracle Applications	Oracle APEX

Capacity

Configuration Options	Fully elastic scaling: Scale compute and

	storage independently to fit your database workload with no downtime: Size the database to the exact compute and storage required Scale the database on demand: Independently scale compute or storage Shut off idle compute to save money Auto scaling: Allows your database to use more CPU and IO resources or to use additional storage automatically when the workload or storage demand requires additional resources: Use compute auto scaling to allow the database to use up to three times more CPU and IO resources, depending on workload requirements. Compute auto scaling is enabled by default when you create an Autonomous Database. Use storage auto scaling to allow the database to expand to use up to three times the reserved base storage, depending on your storage requirements. Storage auto scaling is disabled by default when you create an Autonomous Database.
CPU Range	2 to 512 ECPUs in increments of 1
Shapes	AJD-S ECPUs: 2 to 512 Max DB TB: 384
CPU scaling	Online, Auto scale up, Auto scale down
Storage scaling	Online, Auto scale up

Max IOPs	details coming soon
Max Throughput	100 GB/s
Max Memory	1.35TBx32 = 44 TB

Availability

Nines of availability (may require configuration)	99.95 SLA
Oracle DB Maximum Availability Architecture medals (for OCI / Cloud@Customer deployments)	Not MAA certified
Automated backups max retention	up to 60 days
Long-term backup retention (up to 10 years)	Yes

Functionality Included

Included Oracle DB Options for license-included service (*)	Advanced Compression Advanced Security Database Vault Label Security Partitioning Real Application Clusters (Oracle RAC) Real Application Testing Spatial and Graph
Included Oracle EM Packs for license-included service (*)	Cloud Management Pack for Oracle Database (functionality provided by service) Data Masking and Subsetting Pack (functionality provided by service) Database Lifecycle Management Pack for Oracle Database (functionality provided by service) Diagnostics Pack Tuning Pack
Free Add-Ons (no extra licensing required)	Eligible target for loading data using Oracle Data Integrator, available on Cloud Marketplace (No license required if ADB is the target. Compute resources are charged.) Managed Oracle REST Data Services (ORDS) with ADB-S Oracle APEX Oracle Cloud Observability and Management Service (O&M) Oracle Data Safe Oracle Database Actions Oracle GoldenGate 1) Limited Use Term License Promotion and 2) Oracle GoldenGate Database Migration Term (both available on Oracle Cloud Marketplace)

*Check service documentation for feature availability and limitations

Locations

Oracle Cloud Infrastructure

APAC: AU Gov Southeast - WGA, Chuncheon - YNY, Hyderabad - HYD, Melbourne - MEL (G), Mumbai - BOM (G), Osaka - KIX, Seoul - ICN (A), Singapore - SIN (A, G), Singapore West - XSP, Sydney - SYD (G), Tokyo - NRT (A, G)

EMEA: Abu Dhabi - AUH, Amsterdam - AMS (A), Dubai - DBX, EU Sovereign Central - STR, EU Sovereign South - VLL, Frankfurt - FRA (A, G), Jeddah - JED, Jerusalem - MTZ, Johannesburg - JNB (A), Jovanovac - BEG, London - LHR (A, G), Madrid - MAD (G), Marseille - MRS, Milan - LIN, Newport - CWL, Paris - CDG, Riyadh - RUH, Stockholm - ARN, UK Gov South - LTN, UK Gov West - BRS, Zurich - ZRH (G)

LAD: Bogota - BOG, Monterrey - MTY, Queretaro - QRO, Santiago - SCL, Sao Paulo - GRU (G), Valparaiso - VAP, Vinhedo - VCP (A)

North America: Ashburn - IAD (A, G), Chicago - ORD, Montreal - YUL (G), Phoenix - PHX (A), San Jose - SJC (A), Toronto - YYZ (A, G), US DoD East - RIC, US DoD North - PIA, US DoD West - TUS, US Gov East - LFI, US Gov West - LUF

* New services and hardware generations are rolled out across regions, check your region for current status. (A) = Interconnect to Microsoft Azure available. (G) = Interconnect to Google Cloud available

Azure

APAC: Australia East, Japan East, Southeast Asia

EMEA: France Central, Germany West Central, Italy North, UK South, UK West

LAD: Brazil South

North America: Canada Central, Central US, East US, East US 2, West US

Google Cloud

APAC: asia-northeast1

EMEA: europe-west2, europe-west3

North America: us-east4

AWS

None to date. Visit the Multicloud Updates page (link below) to check on potential roadmap items.

Multicloud Updates

Operational Controls

Allows installing additional software/agents on the host	No
Allows installing OS packages	No
Allows kernel changes	No
Allows OS runtime changes	No
Allows sysdba access	No
Oracle operator access control	No
Control DB patch level	No
Control DB release update (RU) level	No
Control DB version	Yes
Control maintenance window	No
Preview and Validate Patches for Zero-Regression SLO	Yes

Additional Information

Open Source DB	No
Delta Sharing / Cloud Links	No
Select AI to Generate SQL from Natural Language Prompts	Yes
Mongo-compatible API	Yes
Supports non-CDB home	No

Reference Links

General

Oracle PaaS and IaaS Universal Credits Service Descriptions
Service Level Objectives
Oracle DB Maximum Availability Architecture medals
Oracle Cloud Infrastructure Compliance
Oracle Database Releases
BYOL FAQ
OCI Locations and Status
Oracle Database Multicloud Regions, Capabilities, Compliance, High Availability and Migration

Service Specific

ADB FAQ
AJD Serverless Customer References
Blog - Introducing Oracle Autonomous JSON Database for application developers
Forbes article: New JSON Service Demonstrates Oracle's Commitment to Developers
Get Started with Oracle Autonomous JSON Database for free

Oracle Autonomous Database Tools and Applications—Certifications, Compatibility, and Compliance
Oracle Autonomous JSON Database
Oracle Database API for MongoDB
Oracle Database Cloud Migration
Oracle JSON Document Database

The Responsibility Model for Oracle Autonomous Database

Task	Who	Details
Provisioning Autonomous Database resources	Oracle	Oracle is responsible for provisioning resources. You the customer are responsible for initiating provisioning requests that specify configuration characteristics of the resource being provisioned.
Backing up databases	Oracle	Oracle is responsible for backing up databases on a daily basis and for retaining database backups for 60 days.
Recovering a database	Oracle	Oracle is responsible for recovering databases. You the customer are responsible for initiating a recovery request that specifies which existing backup to recover to.
Patching and upgrading	Oracle	Oracle is responsible for patching and upgrading all Autonomous Database resources.
Scaling	Oracle	Oracle is responsible for scaling Autonomous Databases. You the customer are responsible for initiating scaling requests.
Monitoring service health	Oracle	Oracle is responsible for monitoring the health of Autonomous Database resources and for ensuring their availability as per published guidelines.
Monitoring application health and performance	Customer	You the customer are responsible for monitoring the health and performance of your applications at all levels. This responsibility includes monitoring the performance of the database queries and updates your applications perform.
Application security	Customer	You the customer are responsible for the security of your applications at all levels. This responsibility includes Cloud user access to Autonomous Database resources, network access to these resources, and access to database data. Oracle ensures that data stored in Autonomous Databases is encrypted and ensures that connections to Autonomous Databases require TLS 1.2 encryption and wallet-based authentication.
Auditing	Oracle	Oracle is responsible for logging REST API calls made to Autonomous Database resources and for making these logs available to you the customer for auditing purposes. Oracle is responsible for ensuring that Autonomous Databases are provisioned with Oracle Database auditing features enabled. You the customer are responsible for using these features to audit database usage.
Alerts and Notifications	Oracle	Oracle is responsible for providing an alert and notification feature for service events. You the customer are responsible for monitoring any database alerts that may be of interest.