ORACLE

# Autonomous JSON Database Serverless - Always Free

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

## Overview

The Always Free version of Oracle Autonomous Data Warehouse Serverless provides a small compute shape and many of the capabilities of the paid product. Refer to the Free Tier website for details.

*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 |
| **SKUs for starting configuration** | B93307 (ECPU)<br>B91394 (DB 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<br>Transaction Processing (OLTP)<br>Vector |
| **Recommended Data Models** | Document Store (JSON)<br>NoSQL<br>Text<br>Vector |
| **Certified Oracle Applications** | Oracle APEX |

## Capacity

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|---|---|
| **Configuration Options** | The Always Free option provides databases that have CPU and storage included and you are never billed for an Always Free instance |

| | |
|---|---|
| | until the instance is upgraded to a paid Autonomous Database.<br>Maximum of approximately 20 GB Exadata storage per database (you may see more than this)<br>Maximum of 30 simultaneous database sessions<br>Maximum of 2 Always Free Autonomous Database instances per Oracle Cloud Infrastructure tenancy. The Always Free Autonomous Database workload types are: Data Warehouse, Transaction Processing, JSON Database, and APEX Service. If you create 2 Always Free instances, they can be the same or different Autonomous Database workload types.<br>The HTTP interface for Always Free Autonomous Databases is rate limited to restrict the number of simultaneous service users. Approximately 3-6 simultaneous users can be supported across all of the APEX, Oracle REST Data Services, and Database Actions running on your Always Free Autonomous Databases. |
| **CPU Range** | 2 to 2 ECPUs |
| **Shapes** | ADB-S Always Free<br>ECPUs: 2 to 2<br>Max DB TB: .02 |
| **CPU scaling** | N/A |
| **Storage scaling** | Fixed storage size |
| **Max IOPs** | N/A |
| **Max Throughput** | N/A |
| **Max Memory** | N/A |

| | |
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| | |

## Availability

| | |
|---|---|
| **Nines of availability (may require configuration)** | N/A |
| **Oracle DB Maximum Availability Architecture medals (for OCI / Cloud@Customer deployments)** | Not MAA certified |
| **Automated backups max retention** | Not Available |
| **Long-term backup retention (up to 10 years)** | No |

## Functionality Included

| | |
|---|---|
| **Included Oracle DB Options for license-included service (*)** | Advanced Compression<br>Advanced Security<br>Label Security<br>Partitioning<br>Real Application Clusters (Oracle RAC)<br>Spatial and Graph |
| **Included Oracle EM Packs for license-included service (*)** | None |
| **Free Add-Ons (no extra licensing required)** | Managed Oracle REST Data Services (ORDS) with ADB-S<br>Oracle APEX<br>Oracle Database Actions<br>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

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

### Google Cloud

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

### 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** | No |

## 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

AJD Serverless - Always Free Customer References
Blog - Introducing Oracle Autonomous JSON Database for application developers
Get Started with Oracle Autonomous JSON Database for free
Oracle Autonomous JSON Database
Oracle Cloud Free Tier
Oracle Database API for MongoDB
Oracle Database Cloud Migration
Oracle Database for developers: events, sample apps, community links and more resources
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.<br><br>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.<br><br>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. |