

Autonomous Transaction Processing Serverless



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

Overview

Oracle Autonomous Transaction Processing Serverless (ATP-S) is fully automated and optimized for transaction processing or mixed workloads. The service delivers a self-driving, self-securing, self-repairing database service that can instantly scale to meet demands of mission critical applications, running on Exadata (non-dedicated).

Visit the <u>DB Expert Services Taxonomy page</u> 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	B95702 (ECPU) or B95704 (ECPU BYOL) 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	Blockchain Data Science / Machine Learning Data and IoT Event Streams Graph Mixed Workload (Transaction + Analytics) Transaction Processing (OLTP) Vector
Recommended Data Models	Document Store (JSON) Document Store (XML) NoSQL Spatial Text Vector



Certified Oracle Applications	FLEXCUBE 14.7
	JD Edwards EnterpriseOne Tools 9.2.6 and
	later
	Oracle APEX
	Oracle Fusion Middleware 14.1.2.0.0
	Oracle Primavera P6 EPPM Version 23
	PeopleSoft PeopleTools 8.62 and later
	RGBU-Xstore 18.0.1 and later
	Siebel Enterprise Server 25.2 and later

Capacity

Configuration Ontions	Fully cleater cooling. Coole commute and
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.
	cieate all'Autonomous Database.



CPU Range	2 to 16128 ECPUs in increments of 1
Shapes	ATP-S ECPUs: 2 to 512 Max DB TB: 384 ATP-S Available with Service Limit Increase Request ECPUs: 513 to 16128 Max DB TB: 3100
CPU scaling	Online, Auto scale up, Auto scale down
Storage scaling	Online, Auto scale up
Max IOPs	flash 8k: 2.8M read + 1M write (per storage server)
Max Throughput	100 GB/s
Max Memory	1.35TBx32 = 44 TB

Availability

Nines of availability (may require configuration)	99.995 SLA (with Autonomous Data Guard)
Oracle DB Maximum Availability Architecture medals (for OCI / Cloud@Customer deployments)	Silver, Gold
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 In-Memory 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)	Data Transforms (nominal usage charge) 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.) Graph Studio (nominal usage charge) Managed Oracle REST Data Services (ORDS) with ADB-S Oracle APEX Oracle Analytics Desktop 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) Oracle Machine Learning UI (nominal usage charge)

*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), 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, 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

06 Jul 2025



Delta Sharing / Cloud Links	Delta Sharing Provider / Recipient and Cloud Links
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 **ATP Serverless Customer References** Azure documentation: Overview - Oracle Database@Azure Certify Applications for Compatibility Between Autonomous Database Serverless and Dedicated Cost Estimator Oracle Autonomous Database Tools and Applications—Certifications, Compatibility, and Compliance **Oracle Database Cloud Migration** Oracle Database@Azure Oracle Database@Azure Credits Service Descriptions Oracle Database@Google Cloud Credits Service Descriptions Oracle Database@Google Cloud documentation Regions, capabilities, interoperability and compliance posture for Oracle Database@ACE services What's new in Autonomous Transaction Processing Serverless



The Responsibility Model for Oracle Autonomous Database

46

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.

oracle.com/dbexpert

06 Jul 2025

