Autonomous Transaction Processing
What is Autonomous Transaction Processing

Autonomous Transaction Processing is a fully managed database tuned and optimized for transaction processing or mixed workloads with the market-leading performance of Oracle Database.

**Self-Driving**
Leverages machine learning to automate database and infrastructure management, monitoring, and tuning

**Self-Securing**
Protects from both external attacks and malicious internal users. Isolates operational users from application data and ensures up to date security patching via software update automation

**Self-Repairing**
Protects from all downtime including H/W failures, planned maintenance and online application schema updates

Welcome to Oracle’s premier autonomous cloud service for transaction processing!
Everything you need to …

Design, load and analyze your data quickly and efficiently in the cloud.

WATCH
Oracle Autonomous Database

WATCH
Autonomous Transaction Processing Demo
Why Use Autonomous Transaction Processing?

A new, comprehensive cloud experience for database

**Quick to Deploy**
Business users can now build their own self-driving database in seconds.

**No IT Skills Required**
Benefit from fully automated management, fully automated patching and upgrades.

**Lower Costs with True Pay-Per-Use**
Scale your database on demand. Independently scale compute or storage. Shut off idle compute to save money.

**Secure Your Data**
Strong data encryption, switched on by default, ensures your data is fully protected.

**Protect Your Investment**
Continue to use your favorite development and reporting tools.

**Complete**
Orchestrate infrastructure and database as code, run with limitless scalability, always online for continuous business operations.
Key Features of Autonomous Transaction Processing

An affordable, feature-rich and fully managed service in the cloud

More Innovation with Less Risk

**Mission Critical SLAs** – Up to 99.995% uptime SLA including planned and unplanned downtime

**Workload Optimization** – Database tunes itself (indexes, memory, partitions, SQL Plans, parallelism, optimizer) for workload as data changes over time

**Limitless Performance** – Built upon a world class dynamic Exadata Infrastructure, never again think about IOPS

**Limitless Scalability** – Built upon Oracle Real Application Clusters, you can scale beyond the limits of a physical server while protecting against server level failures

**Always Online Operations** – Built upon Oracle’s Maximum Availability Architecture: online patching, high availability, scaling, schema updates, everything

Secure Data and Operations

**Latest Security Updates** – Online, automated update of software security fixes to limit exposure to known issues and security vulnerabilities

**Hardware Isolation** – Option to deploy databases on dedicated Exadata Cloud Infrastructure with complete hardware stack isolated from other tenants

**Data Privacy** – Built upon Oracle Data Vault, operations personnel have privilege to do all administrative tasks without any ability to see any customer data

**Protection from Malicious Actors** – Machine learning driven external attack detection and prevention with quarantine of malicious activity.

**Protection from Human Error** – Built upon Oracle Flashback, instantly rewind accidental changes to application schemas during critical updates
Oracle offers a complete range of services to support your database needs, from on-premises to private cloud to public cloud.

<table>
<thead>
<tr>
<th>Optimized HW Configuration</th>
<th>Exadata (on premise)</th>
<th>Exadata Cloud Machine</th>
<th>Exadata Cloud Service</th>
<th>Autonomous Transaction Processing</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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<tr>
<td>Licensing Model</td>
<td>Purchased</td>
<td>Metered</td>
<td>Subscription</td>
<td>Metered</td>
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<tr>
<td>Database Automation</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>Autonomous</td>
</tr>
<tr>
<td>Location</td>
<td>On-Premise</td>
<td>On-Premise</td>
<td>Oracle Public Cloud</td>
<td>Oracle Public Cloud</td>
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<tr>
<td>Pre-optimized for transaction Processing and Mixed Workloads</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
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<tr>
<td>Optimized performance with no manual tuning</td>
<td>No</td>
<td>No</td>
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<td>Fully-managed DB</td>
<td>No</td>
<td>No</td>
<td>No</td>
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Recommended ✔️
Autonomous Transaction Processing uses the same Oracle Database software and technology that runs your existing on-premises database applications, making it compatible with all your existing tools and skill sets.
As a database application developer, business user, or DBA, Autonomous Transaction Processing lets you use all your existing design, data integration, analysis, and reporting tools.

**Application Developers**
Build microservices and REST enabled applications with JSON and SQL Access, supported client drivers including JDBC, .NET, Python, Node.js, PHP, Ruby, C/C++, and more.

**Business Users**
Connect rapid application development tools and other standard reporting tools through JDBC or SQL*Net.

**Database Administrators**
SQL Developer provides a full database development environment: SQL Worksheet, data loading wizards, data modeling, and more tailored to the optimized features of Autonomous Transaction Processing.
A Database Service in a League of Its Own

Autonomous Transaction Processing uses the **best, market leading** Oracle database software running on **unique, market leading** technology platform to deliver a public cloud-based database service in a **league of its own**.

**38 Years** of market leading database experience.
- Oracle has been developing sophisticated database automation for decades

**11 Years** of engineered systems innovation with Exadata.
- Oracle Engineered systems, deliver fully autonomous, automated database infrastructure

Oracle Database is **#1 rated** by leading industry analysts.

Customers moving from rival environments can expect to **cut costs in half**.

**No capital expenditure**
Fully metered subscription service.
Welcome to Oracle’s premier autonomous cloud service for transaction processing and mixed workloads!

**LEARN MORE**

- **Get started today** by following the link on the Autonomous Transaction Processing product page ([www.oracle.com/database/autonomous-transaction-processing](http://www.oracle.com/database/autonomous-transaction-processing))

View data sheets, FAQs, pricing, and additional resources.

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