

First Steps with Oracle Autonomous Database Transaction Processing

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Oracle
Groundbreakers

Nominate yourself or someone you know: acenomination.oracle.com

What is an Oracle Autonomous Database ?

Is a Service in Oracle Cloud is not other Oracle Product



Oracle Autonomus Database **SELF-DRIVING, SELF-SECURING AND SELF-REPAIRING**

Autonomous Vehicle are going to change our life



Oracle Autonomus Database

SELF-DRIVING, SELF-SECURING AND SELF-REPAIRING

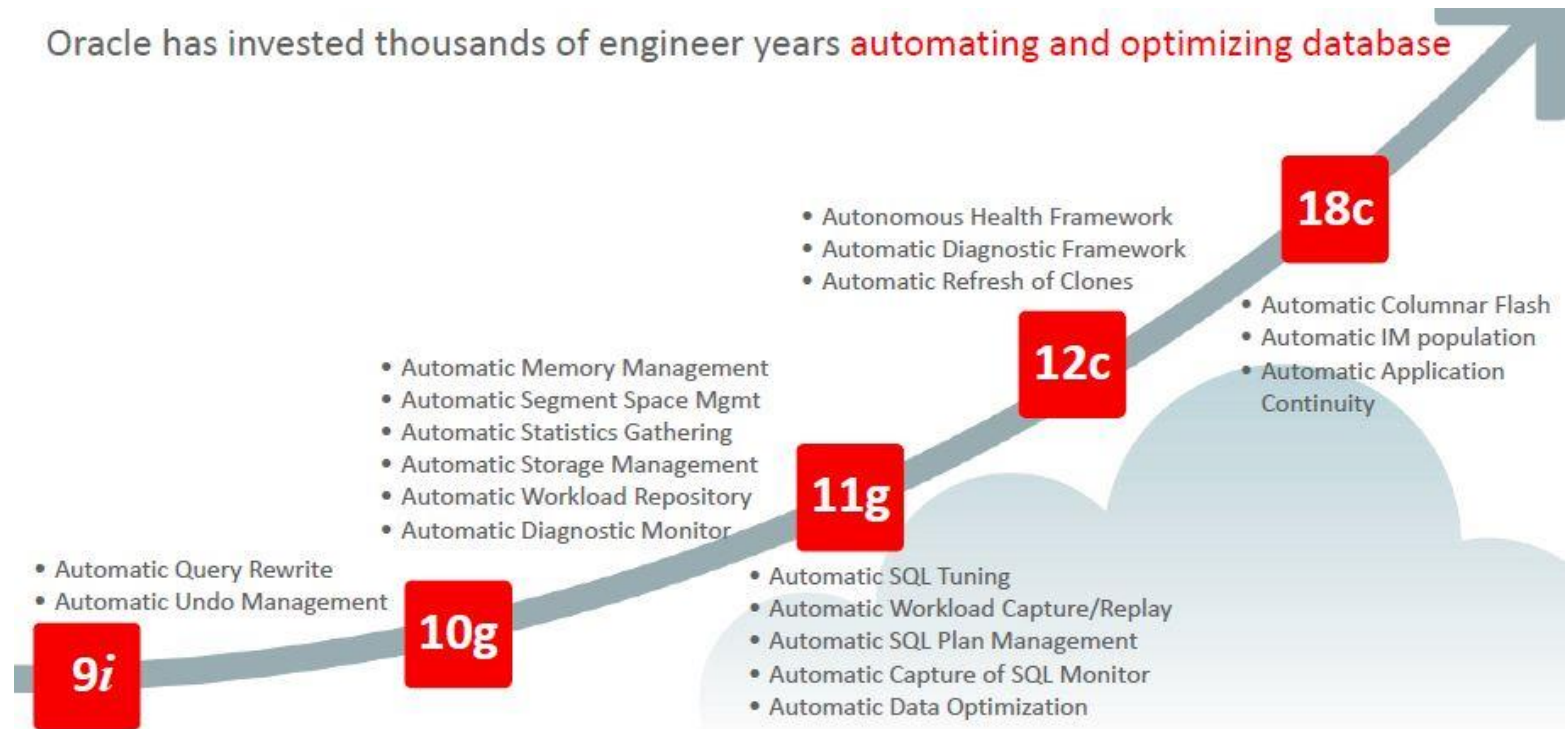
Self Driving : Automate all the database and Infrastructure managment, monitoring and tuning

Self Securing : Protects from external and internal attacks

Self Repairing : Protects from all downtimes including planned maintenance

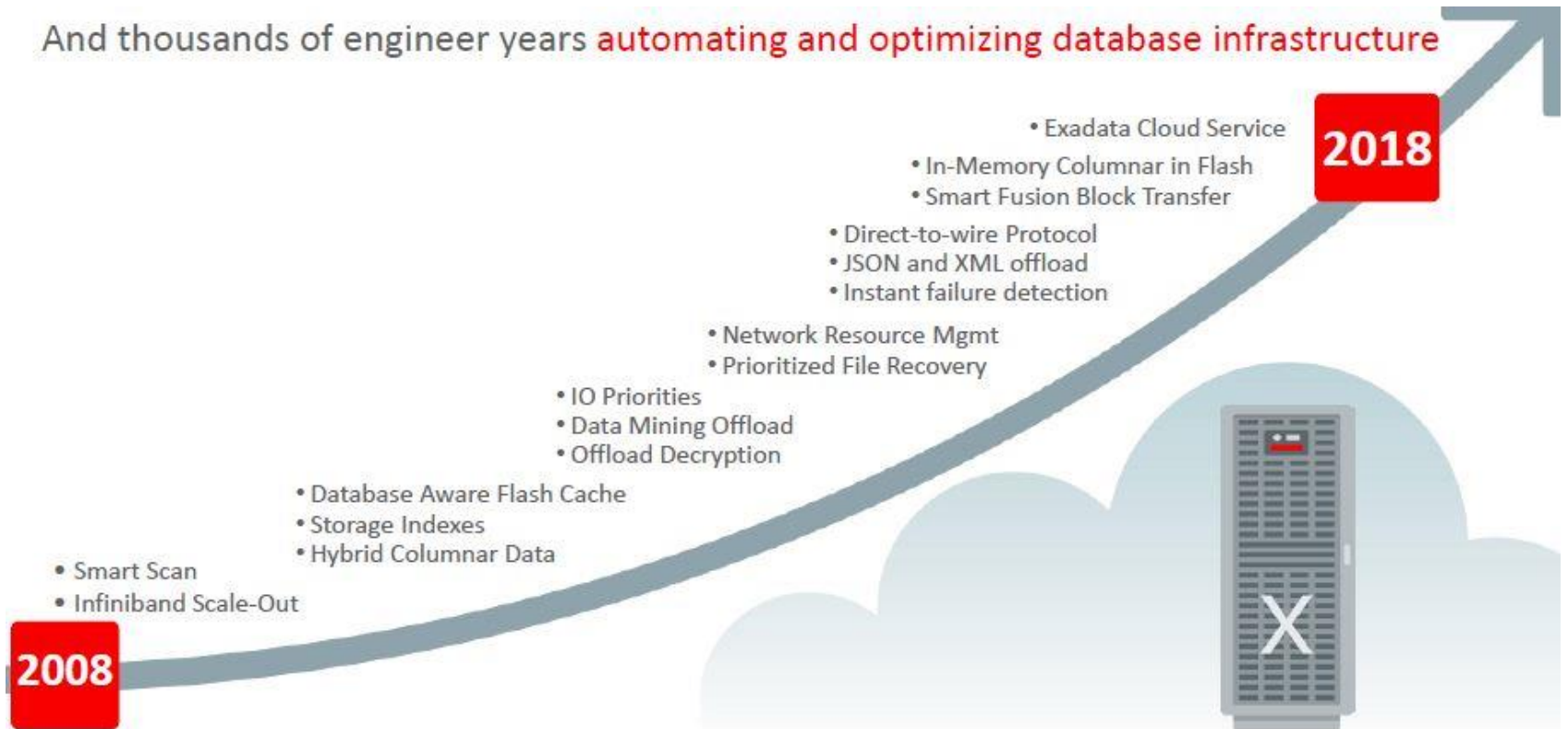
Journey to Autonomous Database

Oracle has invested thousands of engineer years automating and optimizing database

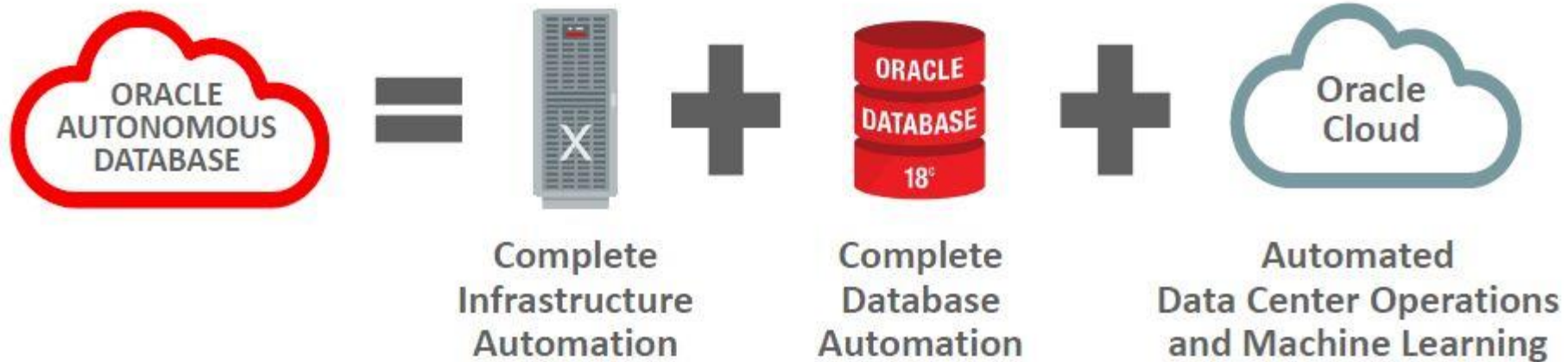


Journey to Autonomous Database

And thousands of engineer years automating and optimizing database infrastructure



Oracle Autonomous Database



Oracle Autonomous Database Two Deployment Choices

Serverless
Simple and Elastic

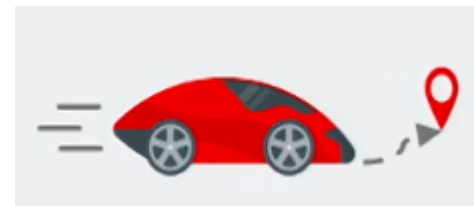
Dedicated
Private Cloud in Public
Cloud

Serverless Simple

- Oracle manage all tasks

Creation, Configuration, Life Cycle, Patching, etc

- Customers choose CPU, Storage and Region



Example Provisioning Tasks

Autonomous Database Serverless

Oracle Autonomous Database	On Premise
"Create Autonomous Database"	Get the Server
	Pre-Installation Tasks
Average 5 minutes	Install Oracle Database Software
	Create Database
	Average 40 hours

Serverless Easy to Scale

- Shrink or grow online and instantly
- Low Minimum 1 CPU and 1 TB Storage
- Autoscale – Allows the system to scale up 3 times of CPU number.



Database

- Relational Data
- No Relational Data (JSON, XML)

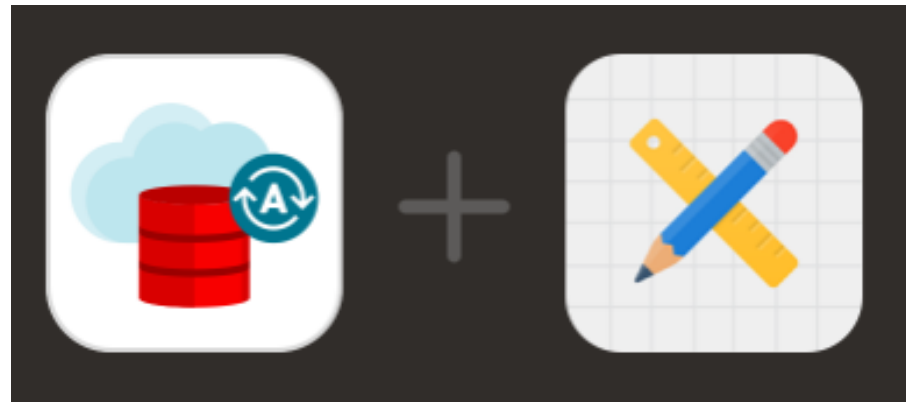


Autonomous Databases Transaction Processing Best TP and Mixed Workloads

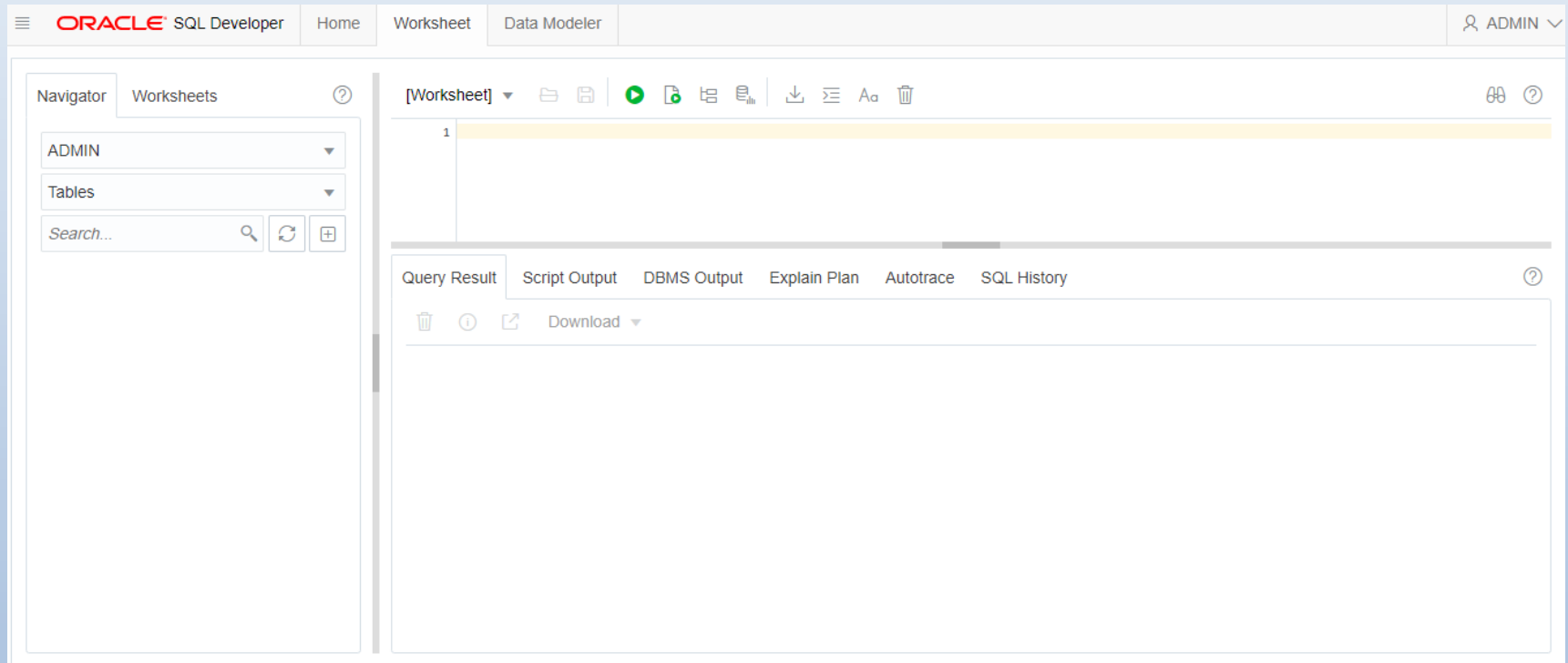


Ready to Start Development with APEX

- APEX is Pre-Installed
- Development Platform Low Code
- Use Browser
- Pre-Built Apps



SQL Developer Web



SQL/PLSQL Tools for Developers and DBAs

- SQL Developer
- SqlPlus
- SQLcl

Oracle Instant Client
SQL*Plus



ORACLE Silver
Partner

SQLcl



ORACLE APPROVED
EDUCATION CENTER

SQL Developer



Development with Autonomous Transaction Processing

- Drivers for Java, Python, Node.js, .Net
- Support RestFul Web Services



Oracle Clients

- SQL*NET, JDBC, ODBC
- Encrypted
- SSL

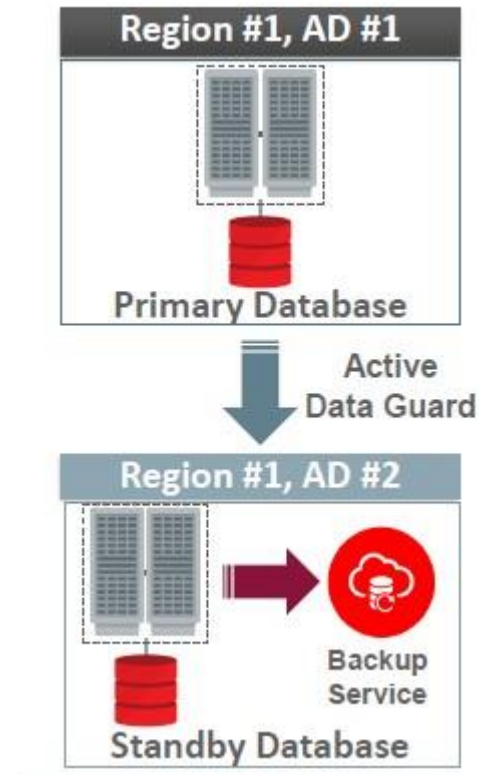
Download Client Credentials (Wallet)

To download your client credentials, click Download, and supply a password for the wallet.

Download

ATP High Availability

- RAC, Data Guard, Backups
- Protection against:
 - Hardware and Software Failures
 - Online Patches and Updates
 - Site Failures
 - Data Corruption



FIRST STEPS WITH ATP SERVERLESS

Create and Log into
your Cloud Account



Create your ATP



Connect to your
Database

Oracle Cloud Infrastructure

New Free Tier

oracle.com/gbtour

Always Free

Services you can use for unlimited time

+

30-Day Free Trial

Free credits you can use for more services



What's included with Oracle Cloud Free Tier?

New Always Free

Services you can use for an unlimited time.

- Two Oracle Autonomous Databases with powerful tools like Oracle Application Express (APEX) and Oracle SQL Developer
- Two Oracle Cloud Infrastructure Compute VMs; Block, Object, and Archive Storage; Load Balancer and data egress; Monitoring and Notifications

See below for a list of eligible services



30-day Free Trial

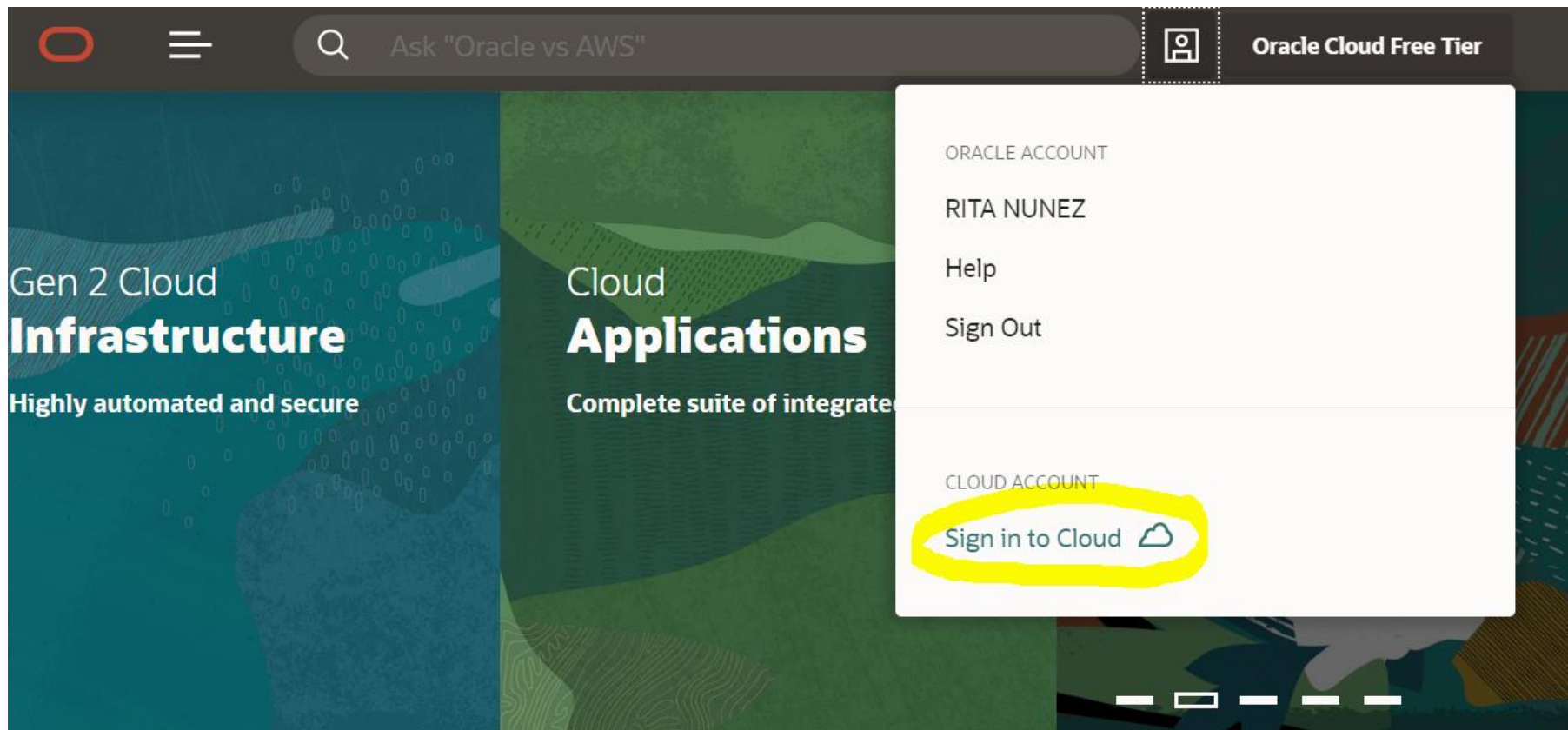
US\$300 in free credits.

- Access to a wide range of Oracle Cloud services for 30 days, including Databases, Analytics, Compute, and Container Engine for Kubernetes
- Up to eight instances across all available services
- Up to 5 TB of storage

See below for a list of eligible services

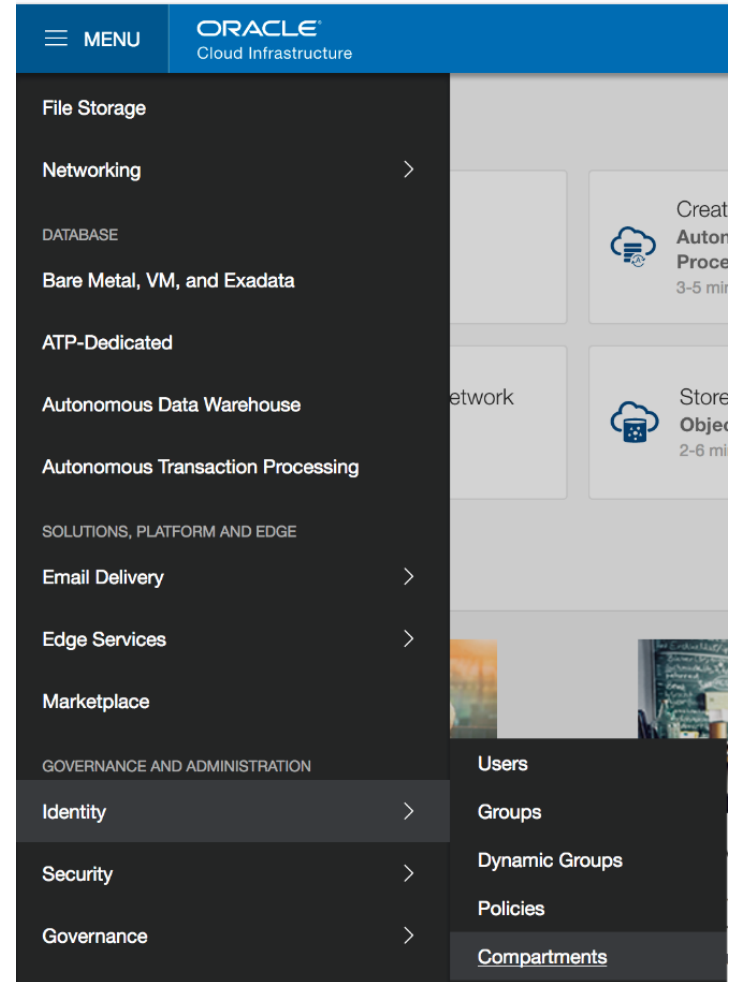
How to Create a Serverless Database

1 – Sign in to Oracle Cloud



2 - Create a Compartment

Compartments helps to organize resources



3- Create Autonomous Database

ORACLE Cloud

us-phoenix-1

Autonomous Database

Autonomous Databases *in Q03 Compartment*

[Create Autonomous Database](#)

Name	State	Database Name	CPU Core Count	Storage (TB)	Workload Type	Created
There are no Autonomous Databases in Q03 that match the filter criteria.						
No Autonomous Databases						< Page 1 >

COMPARTMENT

Q03

oraclepartnersas (root)/CLOUDABLE/Q03

Don't see what you're looking for?

Ready to Use!



Tasks Availables

- Start/Stop
- Manual Backup
- Scale Up/Down
- Restore the Database
- Downlad Credentials
- Monitoring Performance
- Clone Database

Autonomous Database » Autonomous Database Details

ATP

AVAILABLE

Test1

DB Connection
Performance Hub
Service Console
Scale Up/Down
Stop
Actions ▾

Autonomous Database Information Tags

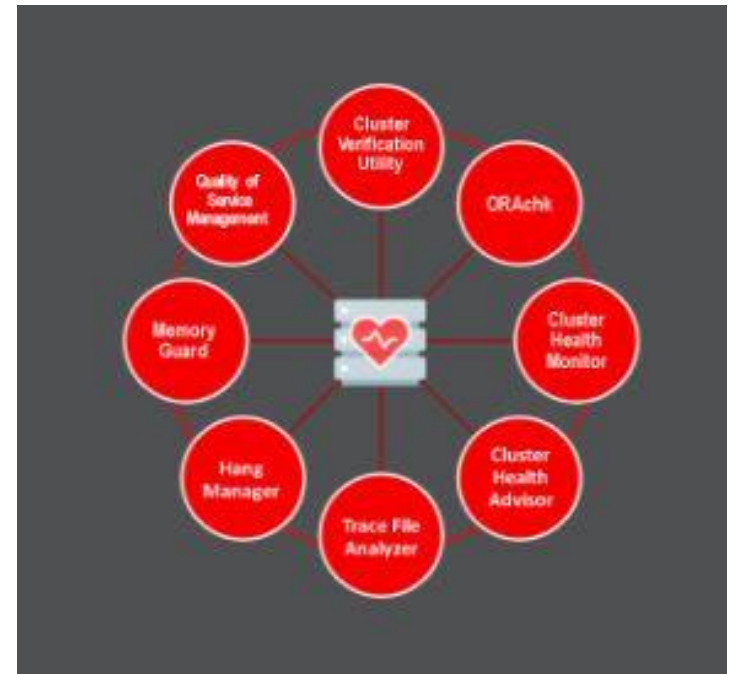
<p>General Information</p> <p>Database Name: Test1</p> <p>Workload Type: Transaction Processing</p> <p>Compartment: ritanunez (root)/DEMO</p>	<p>Infrastructure</p> <p>Dedicated Infrastructure: No</p> <p>Backup</p>
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Manage Users, Roles and Privileges

- Inicial User : Admin - administrator of your Database (PDB)
- Create other Users :
 “CREATE USER”
- Pre-created Rol : DWROLE privileges for developers and Data Scientist
- Create other Roles

Autonomous Health Framework

Machine Learning to maintain availability and performance

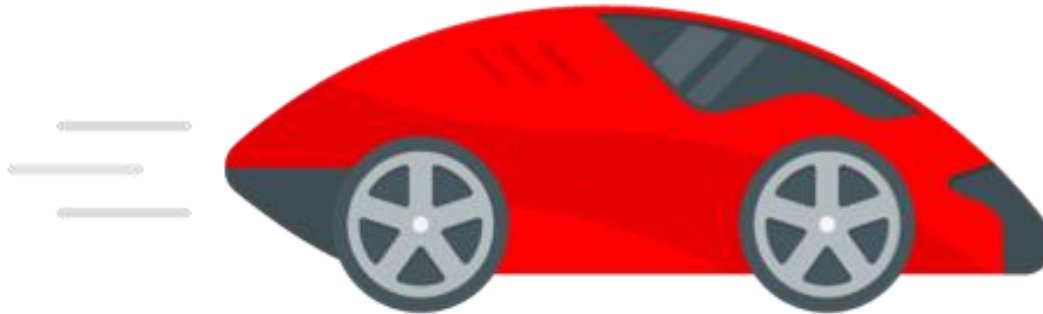


Load Data

- SQL*LOADER
- DATA PUMP
- GOLDEN GATE
- SQLDEVELOPER
- DBMS_CLOUD

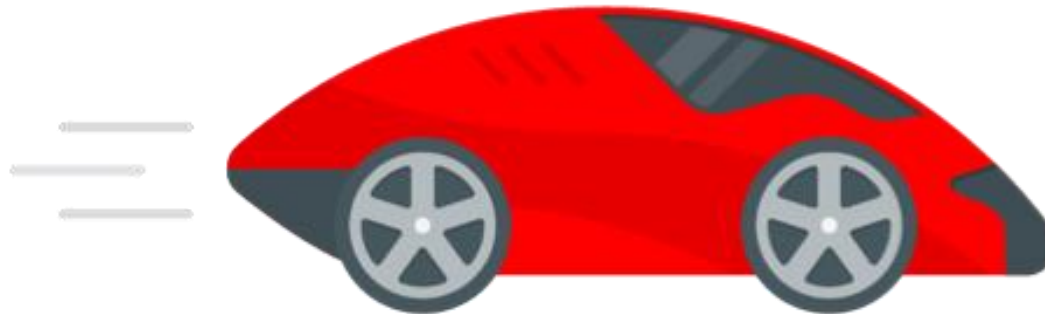
DEMO 1

Sign In to Oracle Cloud and Provisioning an ATP



DEMO 2

Download Credentials and Connecting to ATP



Recomendations:

- Create your ALWAYS FREE Account
- Use ATP Serverless for Development and Testing
Ideal for APEX and JAVA Developers



Test ATP Serverless for Production

Startups. Small and Medium Size Business. Business Line App



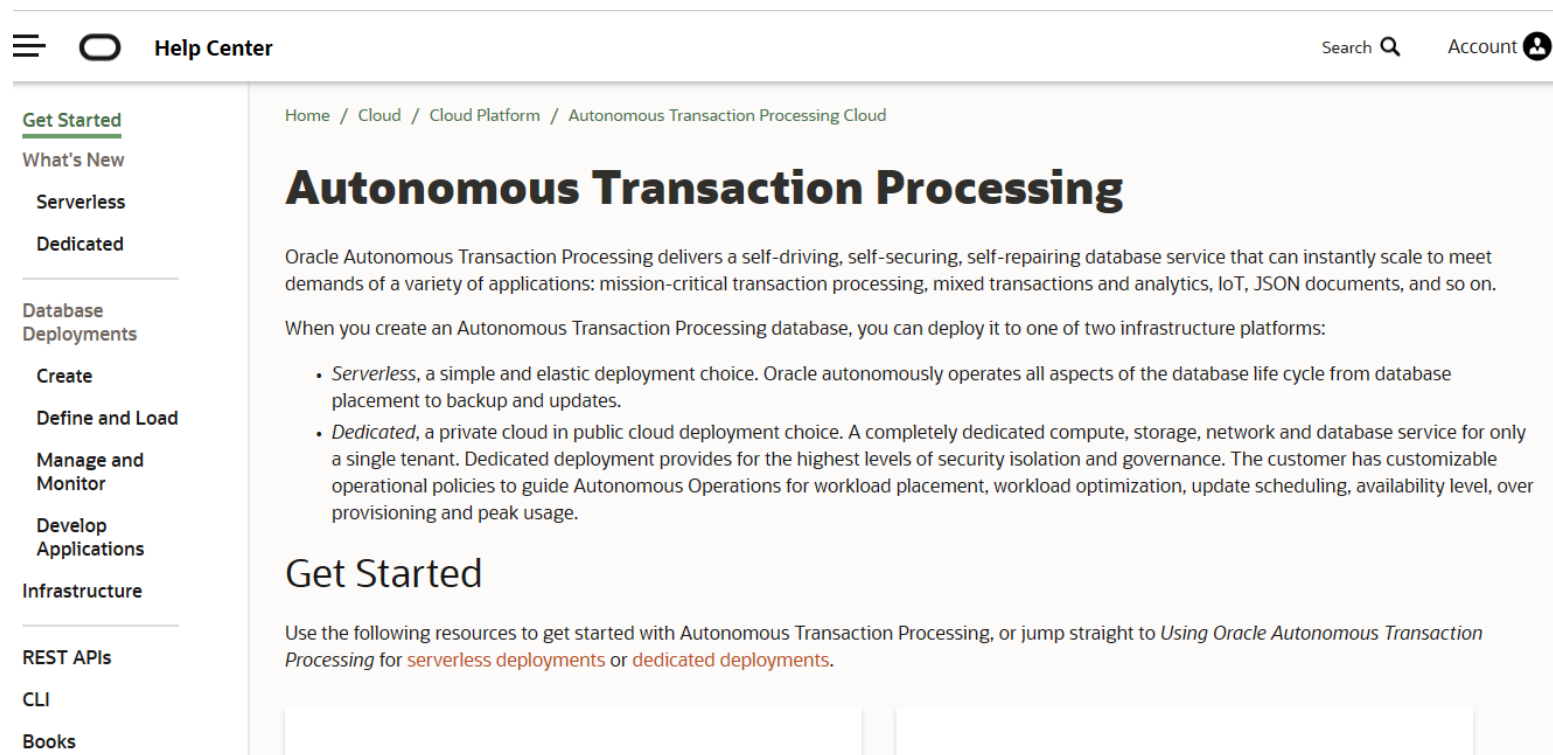
Test ATP Dedicated

You need Oracle or Oracle Partner to get a ATP Dedicated



Oracle Autonomous Transaction Processing Documentation

<https://docs.oracle.com/en/cloud/paas/atp-cloud/index.html>



The screenshot shows the Oracle Help Center interface. At the top, there is a navigation bar with a hamburger menu icon, the text "Help Center", a search icon, and an account icon. On the left side, there is a vertical navigation menu with the following items: "Get Started" (highlighted with a green underline), "What's New", "Serverless", "Dedicated", "Database Deployments", "Create", "Define and Load", "Manage and Monitor", "Develop Applications", "Infrastructure", "REST APIs", "CLI", and "Books". The main content area has a breadcrumb trail: "Home / Cloud / Cloud Platform / Autonomous Transaction Processing Cloud". Below the breadcrumb is the main heading "Autonomous Transaction Processing". The text below the heading states: "Oracle Autonomous Transaction Processing delivers a self-driving, self-securing, self-repairing database service that can instantly scale to meet demands of a variety of applications: mission-critical transaction processing, mixed transactions and analytics, IoT, JSON documents, and so on." It then says: "When you create an Autonomous Transaction Processing database, you can deploy it to one of two infrastructure platforms:" followed by a bulleted list:

- *Serverless*, a simple and elastic deployment choice. Oracle autonomously operates all aspects of the database life cycle from database placement to backup and updates.
- *Dedicated*, a private cloud in public cloud deployment choice. A completely dedicated compute, storage, network and database service for only a single tenant. Dedicated deployment provides for the highest levels of security isolation and governance. The customer has customizable operational policies to guide Autonomous Operations for workload placement, workload optimization, update scheduling, availability level, over provisioning and peak usage.

Below the list is the section "Get Started" with the text: "Use the following resources to get started with Autonomous Transaction Processing, or jump straight to *Using Oracle Autonomous Transaction Processing* for [serverless deployments](#) or [dedicated deployments](#)."

**Thank you! Tusind Tak!
Tusen Takk! Kiitos Paljon! Tack Så Mycket!**

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