



License Knowledge Transfer

Get Starded - Oracle Database Licences

Marcel Lamarca

Exadata Cloud Specialist

André Sousa

ISV Specialist

LAD - Partner Enablement Knowledge Team

October, 2023



SQL> select * from person where name = 'Marcel Lamarca'



Father, husband, Cooker and son!

Graduated in Business Administration (FMU-SP)

Oracle DBA

21 Years dedicated to study and support Oracle Databases.
12 Years working with Exadata (On-prem, C@C and Cloud Services) .
4 Year working for Oracle do Brasil
1 Year on Alliances LAD knowledge Team

Oracle Cloud Specialist (OCS)

Exadata Database Machine X9M Certified Specialist
OCI Foundation 2020 / 2023
Oracle Autonomous Database Administrator
Oracle Cloud Database Migration and Integration
OCI Cloud Certified Architect Associate 2022
OCI Cloud Certified Architect Professional 2022
OCI Multicloud Architect Professional

Oracle Certified Professional (OCP)

10g, 11g and 12c.

Oracle Certified Specialist (OCE)

Grid/RAC Database Administrator 11g





```
SQL> select * from person where name = 'Andre Sousa'
```



Janes and Raul's father, Son, Husband 25 years, dba old school

Graduated in Information Systems

I live a little away from everything even before the world changes

I'm working in Oracle for 21 with Oracle Database products adoption in South America, work mainly with ISVs and SIs helping them on different activities such as POCs, Application Validations, Tuning, he participated as advisor in more than 100 Migration and Upgrade projects.

Oracle Certified Professional 11g (OCP)

Agenda

1

Licenses concepts

License types
License Metrics
Oracle Price List
Hard Partition
Soft Partition

2

Oracle Support

Oracle Support Types
Oracle Support Pricing
Database Timeline
Support Rewards

3

Oracle Cloud

OCI License Manager
BYOL
License included
Universal Credits

4

Oracle Database

Standard Edition
Enterprise Edition
Oracle Price List



License basic concepts

Copyright © 2023, Oracle and/or its affiliates. All rights reserved



Oracle Full Use license

Full Use license is without restrictions and allows usage that is full functionality.

you don't have Limitations to install third applications including Oracle Tools.

Application Specific Full (ASFU)

Use is specific to run only with the defined application and may come with additional restrictions.

Share the same Datatabe with another applications and tools are not allowed.

Application Examples : **SAP, Oracle Business Suite, IS**

Not Allowed examples :

- **Sqlplus connections**
- **Golden Gate connections**
- **Sql Developer connections**

General Licensing Information Environments

Use of Oracle Software requires Customers to license the respective Oracle programs in :

- Production Environments
- Non Production Environments such as:
 - ✓ Development
 - ✓ Quality Assurance/Testing & Staging
 - ✓ Disaster Recovery

CPU

- Central Processing Unit
- May contain one or more cores
- Better Known as Socket or Processing Chip
- Used as a metric for Oracle Standard 2 licensing

vCPU

- Virtual Central Processing Unit
- It can be a core or a thread depending on the virtualize software
- Used as a metric for other clouds (AWS and Azure)
- There is **NO** Core Factor

OCPU

- Processing unit that Oracle uses to create its services in OCI
- For BYOL it is used as a metric for licensing, and the core factor applies

Core

- Core or physical subdivision of a CPU
- Used as a metric for DBE licensing





Software Licensing Metrics

Copyright © 2023, Oracle and/or its affiliates. All rights reserved



Oracle **Named User Plus** VS **Processor Metric** Definition

Named User Plus (NUP)

Metric is defined as individuals authorized to use Oracle programs installed on single or multiple servers. Licensing considerations include:

- **Human** and **non-human** operated devices are counted towards NUP license
- **Batch processing** from computer to computer is permitted and does not require counting users at the front of the batch process

Processor Metric

The Processor metric is used to license all processors where Oracle programs are installed and/or running.

- Most **Standard Edition** products are licensed by Processor, which for Standard Edition programs is defined as a socket
- **Enterprise Edition** and other technology products may be licensed by cores



Oracle Core Factor table

- **Core factor** gives you the delta to calculate Database Enterprise licenses number by processor

[illegible]

- Oracle strongly recommends check on-line documentation to be aware of all recent changes
- Core factor is used to calculate Database Enterprise Features too
- Last update on September, 5 2023





Oracle Database 19C Editions

Copyright © 2023, Oracle and/or its affiliates. All rights reserved



Database Standard Edition

Oracle Database 19c Standard Edition 2 has some limitations compared to the Enterprise Edition.

- Licensed by physical socket (core Factor not allowed)
- Oracle consider the socket factor limited by 2 sockets
- **Standard Edition** model using **NUP** metric requires at least **>10 users**

Oracle Database Enterprise Edition

Is the most complete version of Oracle database software, **core-based** licensing.

- There is no limit for core usage
- The delta to calculate CPU licenses is :
(# of cores x core factor = # of Processor licenses)
- **Enterprise Edition** model using NUP metric requires at least >25 users per **processor licences**

Oracle Database **Standard** Edition VS **Enterprise** Edition

Security Features/Option	Enterprise Edition	Standard Edition
Database Security Assessment Tool	✓	✓
Data Safe	✓	✓
Password Profiles	✓	✓
Strong Authentication	✓	✓
Network Encryption	✓	✓
Oracle RAC	✓	✗
Oracle RAC one node	✓	✗
Unified Audit	✓	✓
Oracle Active Data Guard	✓	✗
Transparent Data Encryption	✓	✗
Management Pack for Oracle Database	✓	✗
Oracle Diagnostics Pack	✓	✗
Oracle Tuning Pack	✓	✗
Oracle Partition	✓	✗
Oracle Advanced compression	✓	✗
Real Application Test	✓	✗



Oracle Database 19c Edition **limitation**, products and **features**



Database / Oracle / Oracle Database / Release 19

Database Licensing Information User Manual



Expand

Title and Copyright Information

► Preface

▼ 1 Licensing Information

1.1 Introduction

1.2 Oracle Database Offerings

1 Licensing Information

- [Introduction](#)
- [Oracle Database Offerings](#)
- [Permitted Features, Options, and Management Packs by Oracle](#)



1 Licensing Information

1.1 Introduction

1.2 Oracle Database Offerings

1.3 Permitted Features, Options, and





Oracle Database on Virtualized Environments

Copyright © 2023, Oracle and/or its affiliates. All rights reserved



What is Partitioning?

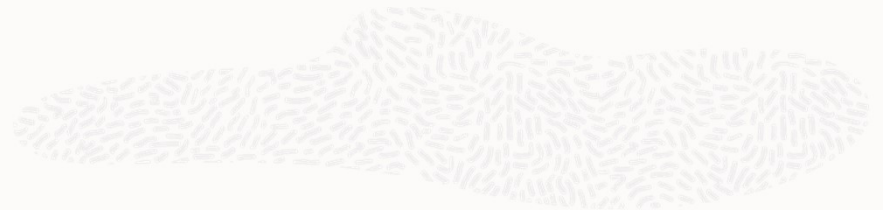


“**Partitioning**” occurs when the CPUs on a server are separated into individual sections where each section acts as a separate system.

There are several hardware and **software virtualization** technologies available that deliver partitioning capabilities, with varying degree of resource allocation flexibility.”



Why **Partition** ?



- Database Administrators (DBAs) often partition servers to achieve the following benefits:
- Ability to run multiple operating systems, or multiple versions of an operating system, on the same server
- Ability to improve workload balancing and distribution by managing processor allocations across applications and users on the server
- Ability to leverage hardware models such as “Capacity on Demand” and “Pay As You Grow.”



Hard Partitioning

Hard partitioning physically segments a server, by taking a single large server and separating it into distinct smaller systems.

Each separated system acts as a physically independent.

Examples :

- Hard Partitioning - LPAR
- Hard Partitioning - LDOM

Soft Partitioning

Soft partitioning segments the operating system using OS resource managers.

The operating system limits the number of CPUs where an Oracle database is running by creating areas where CPU resources are allocated.

Examples :

- Soft Partitioning - VSphere
- Soft Partitioning - HyperV





Understanding Price List Table

Copyright © 2023, Oracle and/or its affiliates. All rights reserved



Understanding price list table

Section I		Prices in USA (Dollar)		
Database Products	Named User Plus	Oracle Database		Software Update License & Support
		Software Update License & Support	Processor License	
Oracle Database				
Standard Edition 2	350	77.00	17,500	3,850.00
Enterprise Edition	950	209.00	47,500	10,450.00
Personal Edition	460	101.20	-	-
Mobile Server	-	-	23,000	5,060.00
NoSQL Database Enterprise Edition	200	44	10,000	2,200.00
Enterprise Edition Options:				
Multitenant	350	77.00	17,500	3,850.00
Real Application Clusters	460	101.20	23,000	5,060.00
Real Application Clusters One Node	200	44.00	10,000	2,200.00
Active Data Guard	230	50.60	11,500	2,530.00
Partitioning	230	50.60	11,500	2,530.00
Real Application Testing	230	50.60	11,500	2,530.00
Advanced Compression	230	50.60	11,500	2,530.00
Advanced Security	300	66.00	15,000	3,300.00
Label Security	230	50.60	11,500	2,530.00
Database Vault	230	50.60	11,500	2,530.00
OLAP	460	101.20	23,000	5,060.00
TimesTen Application-Tier Database Cache	460	101.20	23,000	5,060.00
Database In-Memory	460	101.20	23,000	5,060.00
Database Enterprise Management				
Diagnostics Pack	150	33.00	7,500	1,650.00
Tuning Pack	100	22.00	5,000	1,100.00
Database Lifecycle Management Pack	240	52.80	12,000	2,640.00
Data Masking and Subsetting Pack	230	50.60	11,500	2,530.00
Cloud Management Pack for Oracle Database	150	33.00	7,500	1,650.00

Licensing Oracle Enterprise **Database** Sample

15 Warehouse Distribution Scanners



25 **Delivery** Employees using held **devices**



Oracle Database EE



Custom Application

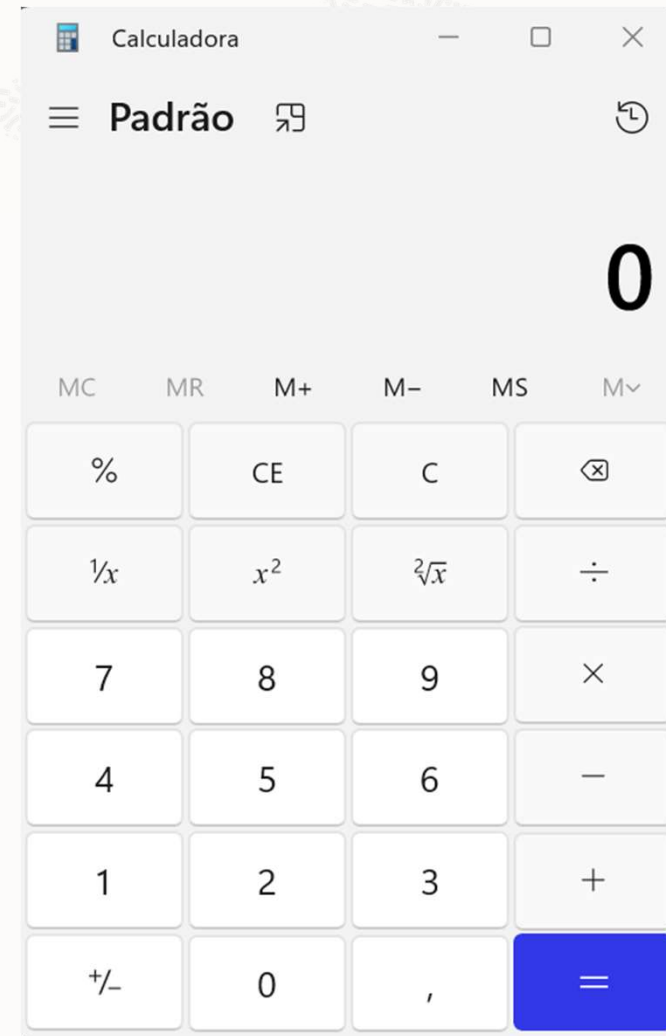
4 Processors

Current distribution company has **40 named users** between Employees and Warehouse scanners.

Oracle Database Enterprise Edition is running on :

- **2** Processors server
- **12** Cores per processor
- **0.5** Core Factor

Let's check some numbers ?



(# of cores x core factor = # of Processor licenses)

- 2 Processors server
- 12 Cores per processor
- 0.5 Core Factor

$$2 \text{ Processor} \times 12 \text{ Cores} = 24 \text{ Cores}$$

$$24 \text{ Cores} \times 0.5 \text{ Core factor} = 12 \text{ Processor licenses required}$$

By Core Factor

By Named User NUP

$$12 \text{ Processor licenses} \times 25 \text{ (user minimum)} = 300 \text{ Named User Plus user}$$



OCI License Manager

Copyright © 2023, Oracle and/or its affiliates. All rights reserved



BYOL

BYOL stands for “bring your own license.”

Oracle BYOL allows our customers to apply licenses they currently own for on-premises software for equivalent, highly automated Oracle PaaS.



License included

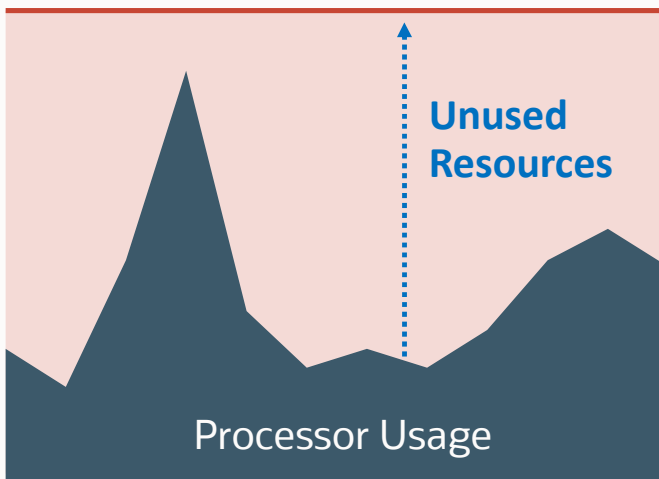
You just pay for what you use and don’t worry about anything else.

You are eligible to use all the database options that are included in your service.

Online, Elastic Scaling with OCI Oracle Databases

Pay Only for What You Use

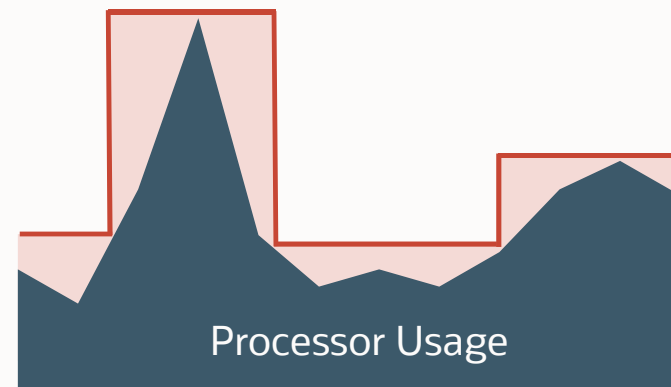
Total Processor Resources



On-Premises – Static

Purchase server processors and software licenses for **highest projected peak load**

Manually or Auto Scaled vCPUs



Cloud Database – Elastic

Adjust enabled vCPUs to match **actual workload** via APIs and web UI - vCPUs are charged per second



Reduce TCO moving to **Autonomous** Standard



Software cost totals

Oracle Autonomous
Database

\$ 46,398

On-premises Oracle
Database Standard Edition

\$ 4,350

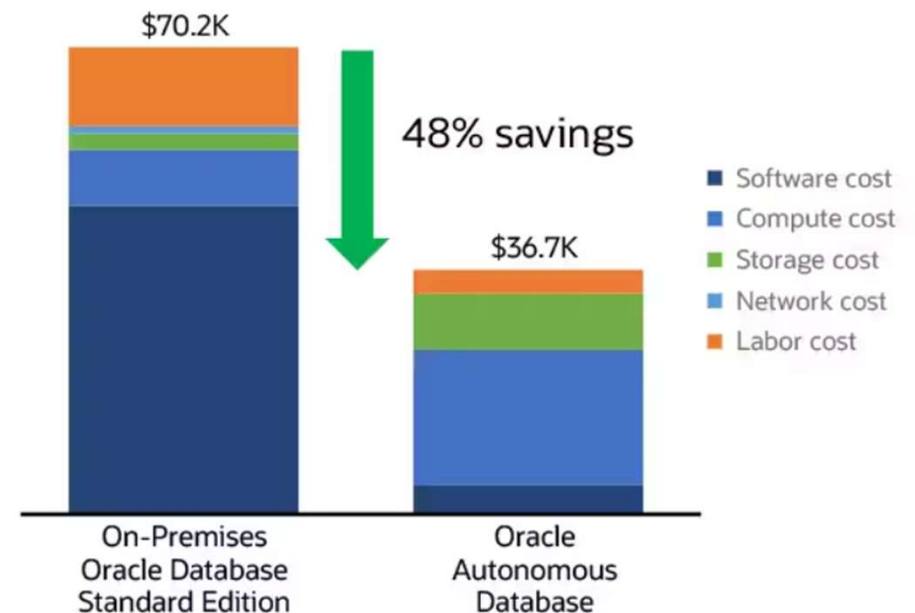
Labor cost totals

Oracle Autonomous
Database

\$ 3,552

On-premises Oracle
Database Standard Edition

\$ 11,853



License Manager for Oracle Cloud Infrastructure



“If you’re thinking about moving your Oracle Database workloads to **Oracle Cloud Infrastructure (OCI)**, you’re probably worried about license portability and being able to track your license utilization.

Your teams in charge of procurement and software asset management are probably also worried about **understanding utilization** to forecast needs and track when licenses expire.”



OCI License Manager Blog



SCAN ME

Announcing License Manager for Oracle Cloud Infrastructure

May 26, 2022 | 7 minute read

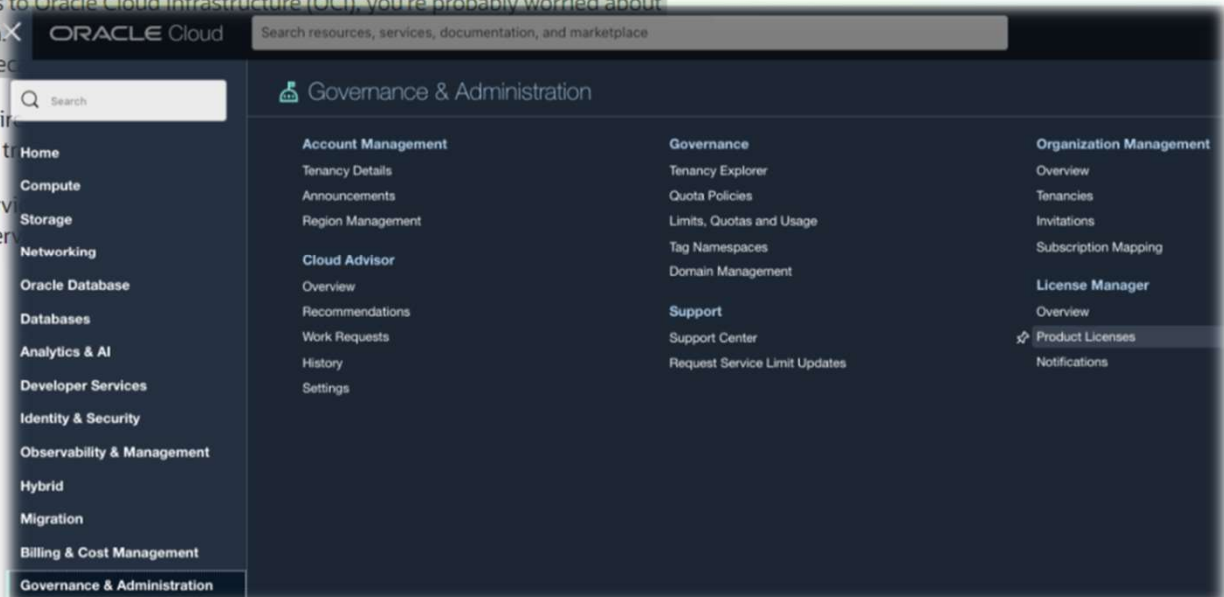


Arun Ramakrishnan
Senior Principal Product Manager

If you're thinking about moving your Oracle Database workloads to Oracle Cloud Infrastructure (OCI), you're probably worried about license portability and being able to track your license utilization. You are probably also worried about understanding utilization to forecast future needs.

Until now, solving these concerns was a manual process or required launching a service that streamlines the process of utilizing and tracking.

We're proud to announce the launch of the License Manager service for third-party software on OCI. License Manager is a free, opt-in service on OCI with the following capabilities:



OCI License **Manager** Console Options

Overview
Product Licenses
Notifications

Welcome to License Manager

The License Manager allows tracking your license entitlement usage against Bring Your Own License resources in OCI.

[Learn how to add licenses](#)

Get started
Add Product License

Product Licenses
0 total

BYOL Resources
0 total

License Included Resources
0 total

Top BYOL Resource by OCPUs

Resource	OCPUs	Compartment
No items found.		
Showing 0 Items < 1 of 1 >		

Notifications

Email Notifications

Manage the list of email addresses to be notified about the expiration or over-subscription of licenses.

Email Recipients *Optional*

Select...

Enter one or more email addresses to receive the alerts. Multiple addresses can be separated using a comma, space, tab, or new line.

Save

Cancel

Oracle PaaS and IaaS Universal Credits Description

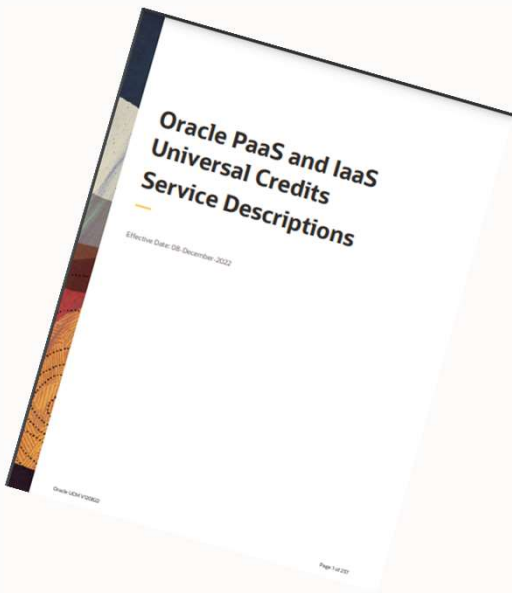


Pay as You Go (PAYG)

- No upfront commitment
- Pay only for what you use
- Pay in arrears based on usage
- Built for land and expand

Universal Credits

- Agreed-to monthly spend
- Additional discounts based on size and term of deal
- Elastic payments based on usage



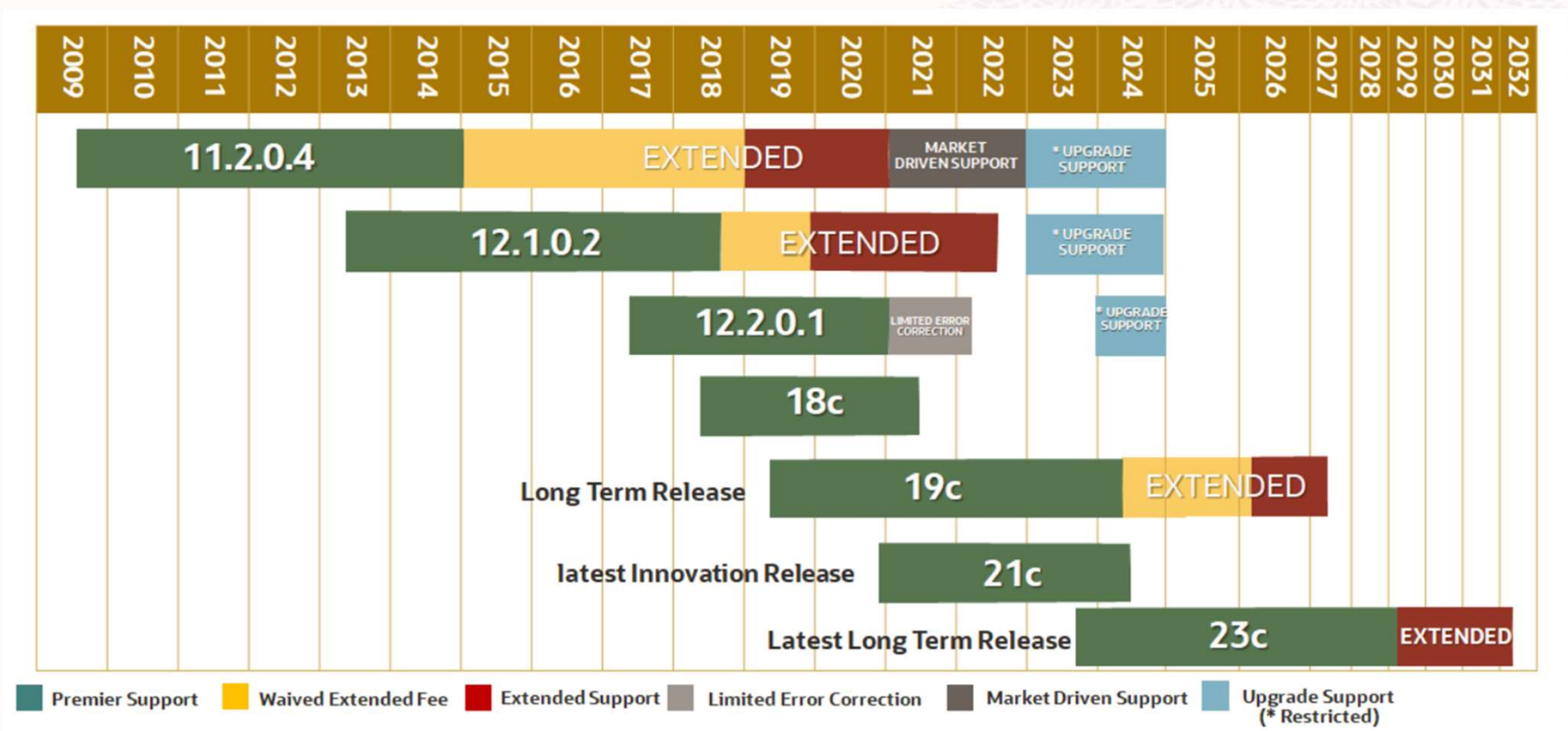


Oracle Database Support

Copyright © 2023, Oracle and/or its affiliates. All rights reserved



Release Schedule of Current Database Releases (Doc ID 742060.1)



Oracle **Software** support Types



Premier Support

Software updates, Security alerts and updates, **Security alert and updates**, Critical patch updates, Tax, **legal and regulatory updates**, Upgrade tools and scripts, **24/7 assistance with service requests**

Extended Support

Software updates, Security alerts and updates, **Security alert and updates**, Critical patch updates, Tax, **legal and regulatory updates**, Upgrade tools and scripts, **24/7 assistance with service requests**

Sustaining Support

Major product and technology releases, 24/7 assistance with service requests





Useful Help channels



Service Request Types: **Technical** vs Non-Technical

DashboardKnowledge**Service Requests**Patches & UpdatesCommunityCertificationsMore...

Service Requests Home

Technical Service Requests

Ask in Community... or Create Technical SR

<u>SR Type</u>	<u>Problem</u>	<u>Required Privileges</u>
Technical	<ul style="list-style-type: none">Product related	<ul style="list-style-type: none">Restricted privilege assigned by CUACreate – View - None
Non-Technical	<ul style="list-style-type: none">Permissions - LoginLicense - Entitlement	<ul style="list-style-type: none">All usersCreate - Update – and View your own

Non-Technical Service Requests

Create Non-Technical SR

Or send an e-mail to : infoprice@oracle.com



Oracle Software Investment Advisor



Licensing Solutions

"Can you help us understand the licensing implications of future technology decisions?"



Investment Economics

"How is our Oracle investment supporting the long-term goals of the business?"



License Knowledge Transfer

"Can you help us better understand our license and subscription terms and conditions?"



Cloud Sizing

"What do we need to consider when moving parts of our existing environment to the cloud?"



Deployment Optimization

"How do I find out if my Oracle TCO is optimized across both on-premise and the cloud?"



Entitlement Intelligence

"How do I find out the current state of our contractual agreements with Oracle?"





SCAN ME


For more information contact sia-global_ww@oracle.com or visit www.oracle.com/goto/sia


Oracle Cloud Cost Estimator



My Estimate  

Start for Free

USD - US Dollar 

Estimated Monthly Cost
\$0.00 

Configure and estimate costs for OCI services ([Learn more](#))

- Services
- Compute shapes
- Reference architectures
- My favorites
- Advanced Search

Select category
Oracle Databases 

Search 

Base Database Service - Virtual Machine

Base Database Service - Virtual Machine allows you to create and manage full-featured Oracle Database systems in the cloud. It can be provisioned on virtual machines with block storage to provide high performance and cost-efficient pricing.

Load

Exadata Database Service

Oracle Exadata is the fastest platform to run the Oracle Database, allowing enterprises to accelerate their mission-critical applications while the uptake of the new platform requires no code changes, sparing enterprises expensive quality assurance and validation cycles.

Load

Data Safe

Data Safe is a unified control center for all your Oracle Databases which helps you understand the sensitivity of your data, evaluate risks to data, mask sensitive data, implement and monitor security controls, assess user security, monitor user activity, and address data security compliance requirements.

Load



An abstract illustration on the left side of the slide. It features a dark green, textured area at the bottom, a light blue area with white speckles above it, and a dark blue area with white speckles at the top. The overall style is painterly and modern.

Oracle Rewards Program

Copyright © 2023, Oracle and/or its affiliates. All rights reserved



Oracle Support **Rewards** program



Cloud >

Cloud Support Rewards

With Oracle Support Rewards, the more you use Infrastructure (OCI), the more you save. Customers can earn \$0.25 to \$0.33 in rewards for every \$1 spent on OCI. Rewards can be used to pay down your tech software support bill, even down to zero.¹

Migrate a few new workloads

Let's say you start with a \$1M annual Oracle technology support bill and spend \$2M on OCI for two new workloads. In this scenario, you'll earn \$500K in Oracle Support Rewards, reducing your annual bill by half.

Migrate more workloads

What if you identify four new workloads to run on OCI? No problem. With a \$1M Oracle technology support bill, plus \$2M in additional OCI spending (for \$4M total), you'll earn a total of \$1M in Oracle Support Rewards, cutting your bill to \$0.



Oracle Support Rewards Start Guide



- Accrue rewards for every dollar spent on OCI



- Reduce your technology support bill
- Combine with other support programs

- For every dollar spent on OCI, you can accrue \$0.25 in Oracle Support Rewards



Oracle Support Rewards on the console



SCAN ME

Analytics & AI

Developer Services

Identity & Security

Observability & Management

Hybrid

Migration & Disaster Recovery

Billing & Cost Management

Governance & Administration

Marketplace

OCI Classic Services

 **Billing & Cost Management**

Billing

Subscriptions

Invoices

Payment History

Upgrade and Manage Payment

Cost Management

Cost Analysis

Cost and Usage Reports

Budgets

Scheduled Reports

Programs and Rewards

Oracle Support Rewards

Rewards Redemption History



Oracle Support Rewards Dashboard

Programs and Rewards

- Oracle Support Rewards
- Rewards Redemption History

Oracle Support Rewards

The rewards summary below reflects data for subscriptions that are enrolled in the Oracle Support Rewards program*, and which have accrued rewards. Support rewards are accrued at the rate specified on your universal credits order document and can be redeemed against support invoices eligible products. [Learn More](#)

Subscription

CLOUDCM (7646453) 

Available Support Rewards	Redeemed Support Rewards	Current Contractual Accrual Rate
N/A	N/A	N/A





Resources

Copyright © 2023, Oracle and/or its affiliates. All rights reserved



Oracle global price list site



SCAN ME

Oracle Global Pricing and Licensing

Price Lists

Price Lists

Specialty Topics

License Price Lists



The downloadable price list will help you familiarize yourself with Oracle's product offerings and pricing.






Oracle Exadata Licenses information





SCAN ME


 **Help Center**

  Licensing Information User's Guide for Exadata ... 

Engineered Systems / Exadata Database Machine

Licensing Information User's Guide



 Expand





Title and Copyright Information

- ▶ Preface
- ▶ 1 Licensing Information
- ▶ 2 Restricted Licensing
- ▶ 3 Third-Party Product Licenses

1 Licensing Information

The Oracle Exadata System Software license includes the use of Exadata Hybrid Columnar Compression along with other features documented in *Oracle Exadata System Software User's Guide*.

Oracle Advanced Compression Option must be licensed to enable flash cache compression. Refer to

 >|

1 Licensing Information



Useful licenses links and references

- Oracle Database licensing :
www.oracle.com/assets/databaselicensing-070584.pdf
- Oracle Processor Core Factor Table :
www.oracle.com/us/corporate/contracts/processor-core-factor-table-070634.pdf
- Partitioning :
www.oracle.com/us/corporate/pricing/partitioning-070609.pdf
- Licensing on cloud Environments:
www.oracle.com/us/corporate/pricing/cloud-licensing-070579.pdf
- Data transfer licensing on Cloud environment
www.oracle.com/us/corporate/pricing/data-transfer-licensing-070590.pdf
- Oracle Licenses e-mail
infoprice@oracle.com

- Microsoft Licensing on Oracle Cloud Infrastructure :

<https://docs.oracle.com/en-us/iaas/Content/Compute/References/microsoftlicensing.htm>

- Oracle Cloud Vmware Solution :

<https://www.oracle.com/cloud/compute/vmware>

- Oracle Vmware Licences Write Paper

https://www.vmware.com/content/dam/digitalmarketing/vmware/en/pdf/whitepaper/solutions/oracle/understanding_oracle_certification_support_licensing_vmware_environments-white-paper.pdf

- Oracle Contracts :

<https://www.oracle.com/cloud/compute/vmware>

- Oracle Cost Estimator documentation :

https://docs.oracle.com/en-us/iaas/Content/GSG/Tasks/signingup_topic-Estimating_Costs.htm

- Oracle Cloud License Manager :

<https://docs.oracle.com/pt-br/iaas/Content/LicenseManager/Concepts/licensemanageroverview.htm>

- Licensing Data Recovery Environments

<https://www.oracle.com/assets/data-recovery-licensing-070587.pdf>



Copyright © 2023, Oracle and/or its affiliates. All rights reserved

Thank You 😊

Questions / Feedback / Training Suggestions

andre.sousa@oracle.com

marcel.lamarca@oracle.com

Ask for help 😊



ORACLE

