



# License Knowledge Transfer

Get Started - Oracle Database Licenses

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**Marcel Lamarca**

Exadata Cloud Specialist

**André Sousa**

ISV Specialist

LAD - Partner Enablement Knowledge Team

October, 2023



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



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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)**

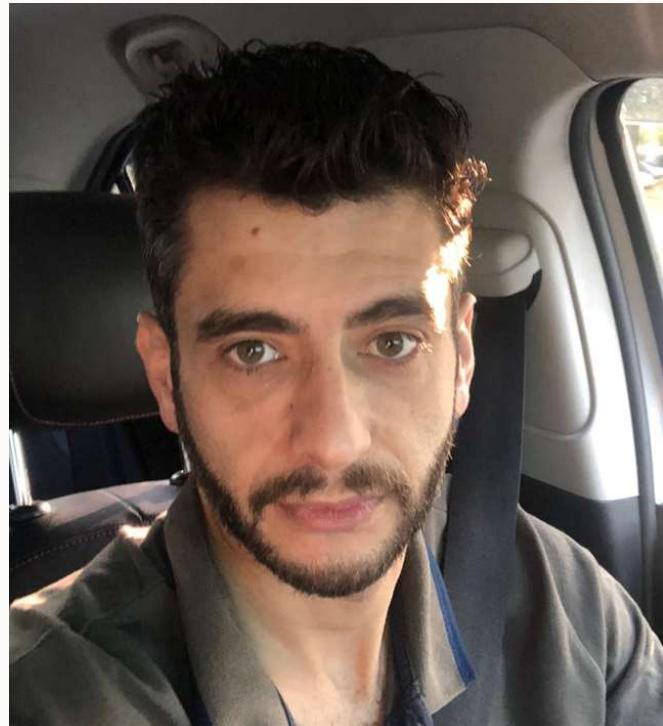
Exadata Database Machine X9M Certified Specialist  
OCI Foundation 2020 / 2023  
Oracle Autonomous Database Administrator  
Oracle Cloud Database Migration and Integration  
OCI Cloud Certified Architect Associate 2022  
OCI Cloud Certified Architect Professional 2022  
OCI Multicloud Architect Professional

#### **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

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## 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 Database 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 virtualization 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

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# 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

- 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

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## 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 lisences**



# 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	✓	✗





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# 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 Management Packs by Oracle



# Oracle Database on Virtualized Environments

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## 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

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# Understanding price list table

Section I	Oracle Database				Prices in USA (Dollar)	
	Named User Plus	Software Update License & Support	Processor License	Software Update License & Support		
<b>Database Products</b>						
<b>Oracle Database</b>						
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		
<b>Enterprise Edition Options:</b>						
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		
<b>Database Enterprise Management</b>						
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



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 Processor  $\times$  12 Cores = 24 Cores

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

By Core Factor

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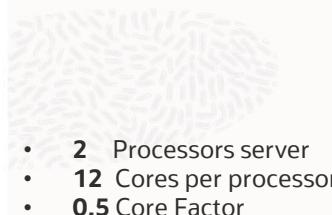
By Named User NUP

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



## Section I

	Named User Plus	Oracle Database Software Update License & Support	Processor License	Prices in USA (Dollar)	
				Processor License	Software Update License & Support
<b>Database Products</b>					
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	



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

12 Processor licenses  $\times$  U\$ 47,500 = U\$ 570,000 License Fee

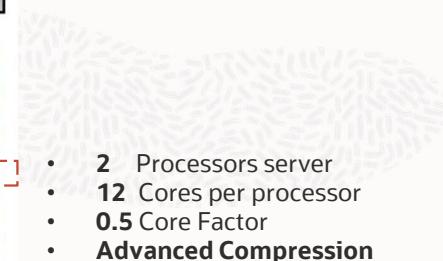
12 Processor licenses  $\times$  U\$ 10,450 = U\$ 125,400 Support Fee

By Processor License

By Named User Plus

300 Named Users Plus  $\times$  U\$ 950 = U\$ 285,000 License Fee

300 Named Users Plus  $\times$  U\$ 209 = U\$ 62,700 Support Fee



**Enterprise Edition Options:**

	Named User Plus	Oracle Database Software Update License & Support	Processor License	Software Update License & Support
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
<b>Advanced Compression</b>	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

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

12 Processor licenses      ✖ U\$ 11,500      =      U\$ 138,000 License Fee

12 Processor licenses      ✖ U\$ 2,530.00      =      U\$ 30,360 Support Fee

By Processor License

By Named User Plus

300 Named Users Plus      ✖ U\$ 230      =      U\$ 69,000 License Fee

300 Named Users Plus      ✖ U\$ 50,60      =      U\$ 15,180 Support Fee



# OCI License Manager

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## 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

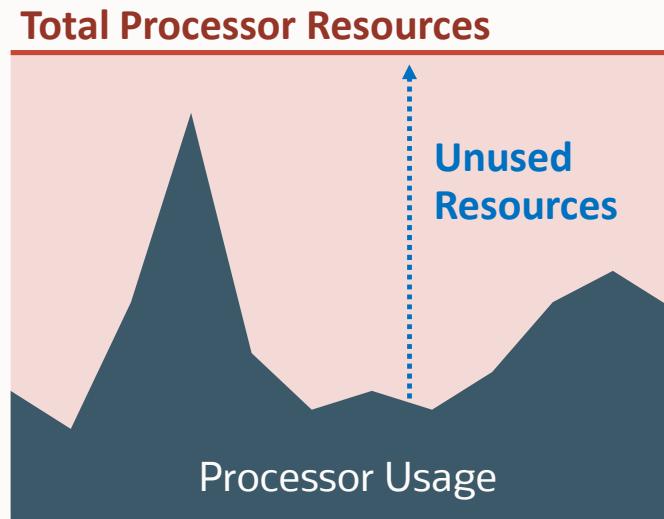
You just pay for what you use and don't worry about anything else.

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



# Online, Elastic Scaling with OCI Oracle Databases

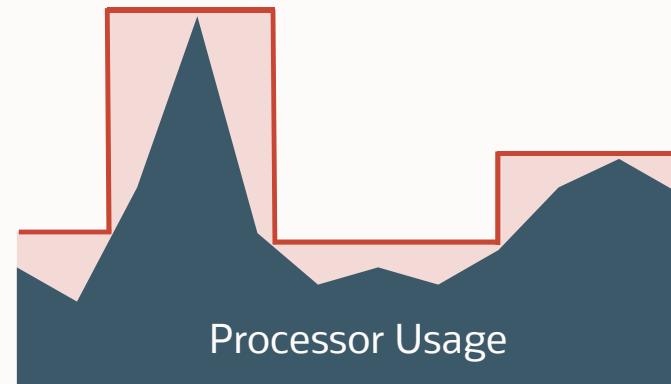
Pay Only for What You Use



## 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

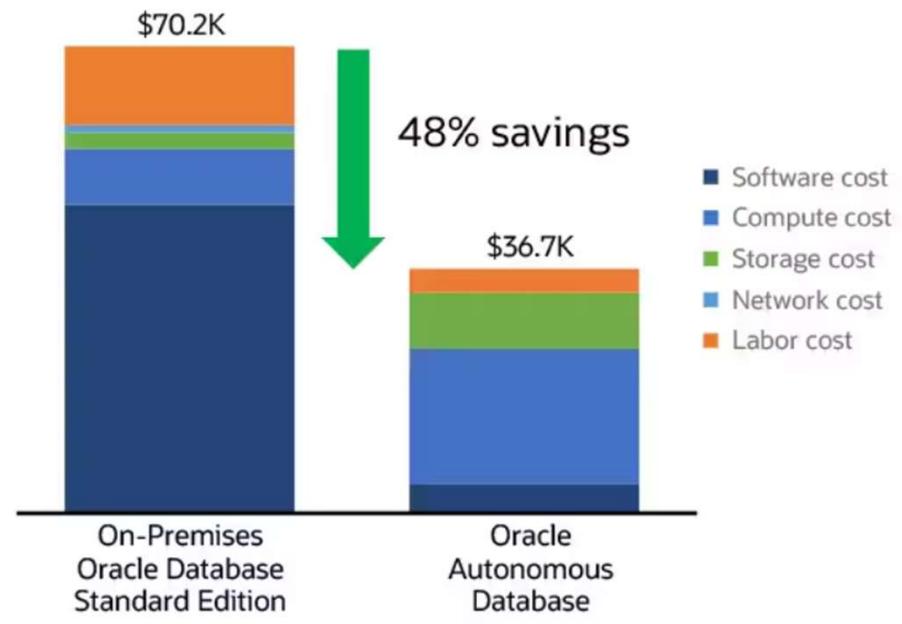
Oracle Autonomous Database  
\$ 46,398

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."





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# OCI License Manager Blog

## 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, a third-party software on OCI. License Manager is a free, opt-in service for OCI with the following capabilities:

The screenshot shows the Oracle Cloud Infrastructure (OCI) console interface. At the top, there's a navigation bar with the Oracle Cloud logo and a search bar. Below the navigation bar, the main content area has a dark header titled "Governance & Administration". The sidebar on the left contains a list of services: Home, Compute, Storage, Networking, Oracle Database, Databases, Analytics & AI, Developer Services, Identity & Security, Observability & Management, Hybrid, Migration, Billing & Cost Management, and Governance & Administration (which is currently selected). The main content area is divided into several sections: Account Management (Tenancy Details, Announcements, Region Management), Cloud Advisor (Overview, Recommendations, Work Requests, History, Settings), Governance (Tenancy Explorer, Quota Policies, Limits, Quotas and Usage, Tag Namespaces, Domain Management), Support (Support Center, Request Service Limit Updates), and Organization Management (Overview, Tenancies, Invitations, Subscription Mapping). A red box highlights the "Product Licenses" link under the Support section.

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# OCI License Manager Console Options

The screenshot shows the OCI License Manager console interface. On the left, a sidebar menu includes 'Overview' (selected), 'Product Licenses', and 'Notifications'. The main content area features a 'Welcome to License Manager' banner with a brief description and a 'Get started' button. Below the banner are three summary cards: 'Product Licenses' (0 total), 'BYOL Resources' (0 total), and 'License Included Resources' (0 total). A small icon of a device with a circular screen is positioned to the right of the summary cards.

This screenshot displays a table titled 'Top BYOL Resource by OCPUs'. The table has columns for 'Resource', 'OCPUs', and 'Compartment'. A message indicates 'No items found.' Below the table, it says 'Showing 0 Items' with navigation arrows.

Resource	OCPUs	Compartment
No items found.		

This screenshot shows the 'Notifications' settings page. It includes a section for 'Email Notifications' where users can manage email recipients for license alerts. A note states: 'Manage the list of email addresses to be notified about the expiration or over-subscription of licenses.' An optional field for 'Email Recipients' is shown with a dropdown placeholder 'Select...'. Below this is a text input field for entering email addresses. At the bottom are 'Save' and 'Cancel' buttons.

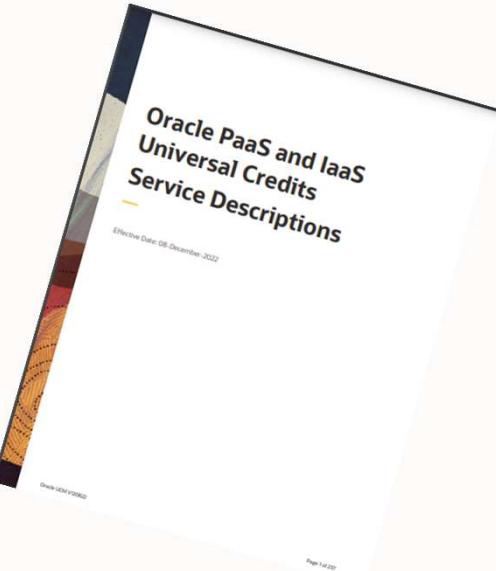




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# Oracle PaaS and IaaS Universal Credits Description

## 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

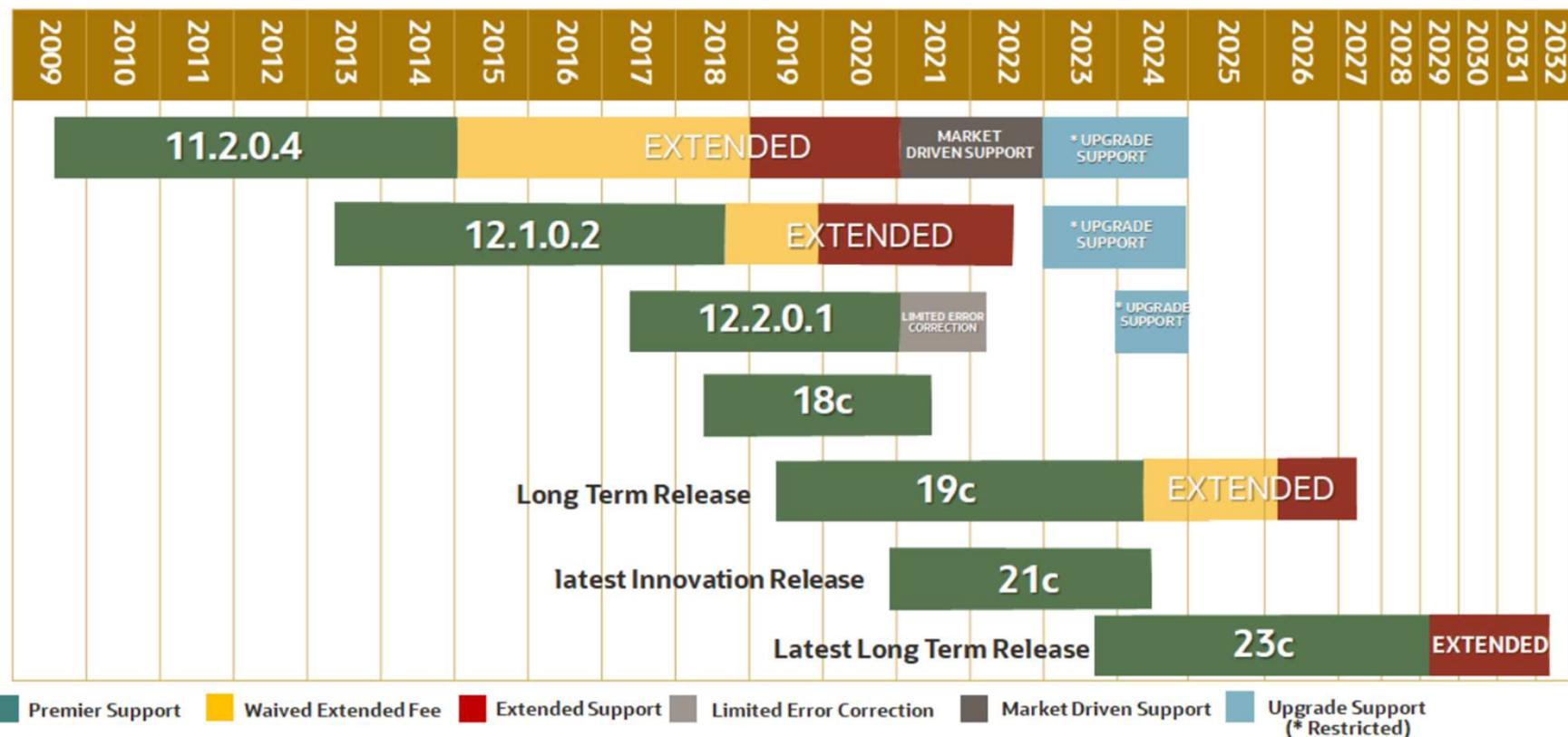


# Oracle Database Support

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## Release Schedule of Current Database Releases (Doc ID 742060.1)



# Oracle **Software support Types**

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## 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

The screenshot shows the Oracle Service Requests interface. At the top, there is a navigation bar with tabs: Dashboard, Knowledge, **Service Requests**, Patches & Updates, Community, Certifications, and More... A decorative cloud graphic is visible on the right side.

The main content area is titled "Service Requests Home". It displays a table comparing "SR Type", "Problem", and "Required Privileges".

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

Below the table, there is a section titled "Non-Technical Service Requests" with a "Create Non-Technical SR" button, which is highlighted with a red box.

Or send an e-mail to : [infoprice@oracle.com](mailto: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?"

For more information contact [sia-global\\_ww@oracle.com](mailto:sia-global_ww@oracle.com) or visit [www.oracle.com/goto/sia](http://www.oracle.com/goto/sia)





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# Oracle Cloud Cost Estimator

My Estimate ...

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

Start for Free

USD - US Dollar

Estimated Monthly Cost

\$0.00



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



# Oracle Rewards Program

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# Oracle Support Rewards program

Cloud >

## Cloud Support Rewards

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

### 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





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# Oracle Support Rewards on the console

Search

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 for eligible products. [Learn More](#)

### Subscription

CLOUDCM (7646453)



Available Support Rewards

N/A

Redeemed Support Rewards

N/A

Current Contractual Accrual Rate

N/A



# Resources

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# Oracle global price list site



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.





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# Oracle Exadata Licenses information

The screenshot shows a web browser window for the Oracle Help Center. The title bar includes the Oracle logo, a menu icon, "Help Center", a search bar containing "Licensing Information User's Guide for Exadata ...", and a search button. Below the title bar, the URL "Engineered Systems / Exadata Database Machine" is visible. The main content area is titled "Licensing Information User's Guide". On the left, a sidebar menu lists "Title and Copyright Information", "Preface", "1 Licensing Information" (which is highlighted with a green background), "2 Restricted Licensing", and "3 Third-Party Product Licenses". The main content area starts with a section titled "1 Licensing Information". It contains text about the Oracle Exadata System Software license, mentioning Exadata Hybrid Columnar Compression and referring to the "Oracle Exadata System Software User's Guide". Below this, it states that Oracle Advanced Compression Option must be licensed for flash cache compression, with a reference to another section.

## 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



# Useful licenses links and references

- Oracle Database licensing :

[www.oracle.com/assets/databaselicensing-070584.pdf](http://www.oracle.com/assets/databaselicensing-070584.pdf)

- Oracle Processor Core Factor Table :

[www.oracle.com/us/corporate/contracts/processor-core-factor-table-070634.pdf](http://www.oracle.com/us/corporate/contracts/processor-core-factor-table-070634.pdf)

- Partitioning :

[www.oracle.com/us/corporate/pricing/partitioning-070609.pdf](http://www.oracle.com/us/corporate/pricing/partitioning-070609.pdf)

- Licensing on cloud Environments:

[www.oracle.com/us/corporate/pricing/cloud-licensing-070579.pdf](http://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](http://www.oracle.com/us/corporate/pricing/data-transfer-licensing-070590.pdf)

- Oracle Licenses e-mail

[infoprice@oracle.com](mailto: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](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](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>





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# Thank You ☺

**Questions / Feedback / Training Suggestions**

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**Ask for help ☺**

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