

## Oracle Database Editions

Move Standard to Enterprise Edition

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#### **Nossos Valores**

Integridade

Ética

**Compliance** 

Inovação

Trabalho em Equipe

Respeito Mútuo

Satisfação do Cliente

Justiça

Qualidade

Comunicação

Como empresa líder em tecnologia, abraçamos a diversidade em todas as suas formas. Acreditamos realmente que a inovação começa com a inclusão. E isso só pode ser alcançado com a cooperação de nossos parceiros. Afirmamos nosso compromisso em manter um ambiente respeitoso e livre de discriminação e esperamos isso dos nossos parceiros de negócios.

A Oracle espera que seus **parceiros** conduzam os negócios de forma **justa** e **ética**, para cumprir as leis anticorrupção em todo o mundo, para cooperar com os pedidos de informação da Oracle e evitar envolver-se em qualquer atividade que envolva até mesmo a aparência de impropriedade.

É vital que os nossos parceiros sejam aderentes aos valores do **Código de Ética e Conduta Empresarial da Oracle**, que baseia-se e implementa os valores que são essenciais para o nosso sucesso como empresa. Nossos valores são a base de tudo o que fazemos e todos nós devemos viver esses valores todos os dias.



Utilize o QR code para acessar o Código de Ética e Conduta Empresarial da Oracle.



Move Standard To Enterprise Edition

Consolidate Database Plataform

**Oracle Database Editions** 

Move Standard Database to Autonomous

**HA** and Disaster Recover

Oracle Database Versions and Time Line

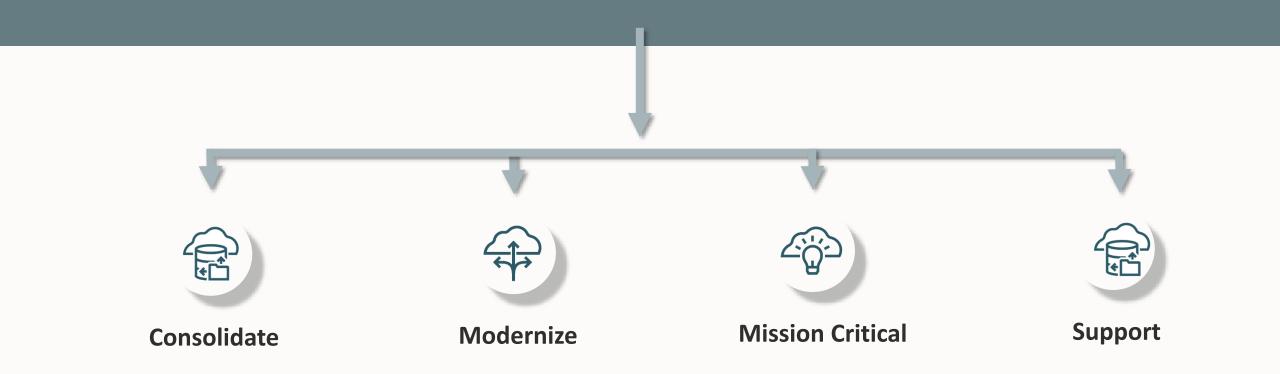
MOS - Market Driven Support

## Oracle Database Innovation



## **Conversation: Modernizing your Oracle State**

Why Migrate from Standard 11g/12c to Enterprise Edition?

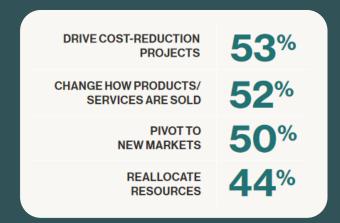


### Our customers say they are modernizing to support new business models

80%

of businesses are planning strategic moves that require IT modernization\*

## Top reasons for modernizing IT estates\*



Database is at the core of the IT infrastructure used to achieve strategic goals

\* MIT Technology Review Insights: New business models, big opportunity



### Why do 2/3 of enterprise workloads remain on-premises?

Customer concerns and/or regulatory compliance

### **Security**



### **Data Sovereignty**



### **Control**



### Latency



#### **Performance**



### **Dependencies**





### Oracle Database Enterprise Edition capabilities enable convergence

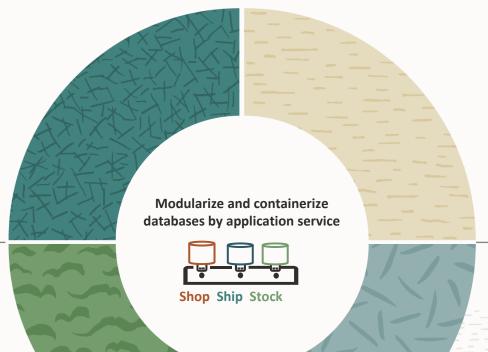
#### Multiple data types

**Structured:** Relational, Graph, Avro,

Parquet, Blockchain

Unstructured: Geospatial, XML, JSON,

Text



#### Multiple workloads

Transactional: OLTP, IOT, distributed,

key-value

**Analytical:** Data warehouse, data lake, operational intelligence,

machine learning, multi-dimensional

#### Mission-critical capabilities

**Scaling:** Performance, capacity, query parallelism, analytics, multitenant

**Risk reduction:** Disaster protection, replication, security, zero data loss backup, crypto-security



**Decentralized:** Microservices, events,

data mesh, APIs

**Accelerated:** Low code, data engineering, schema-less, SaaS

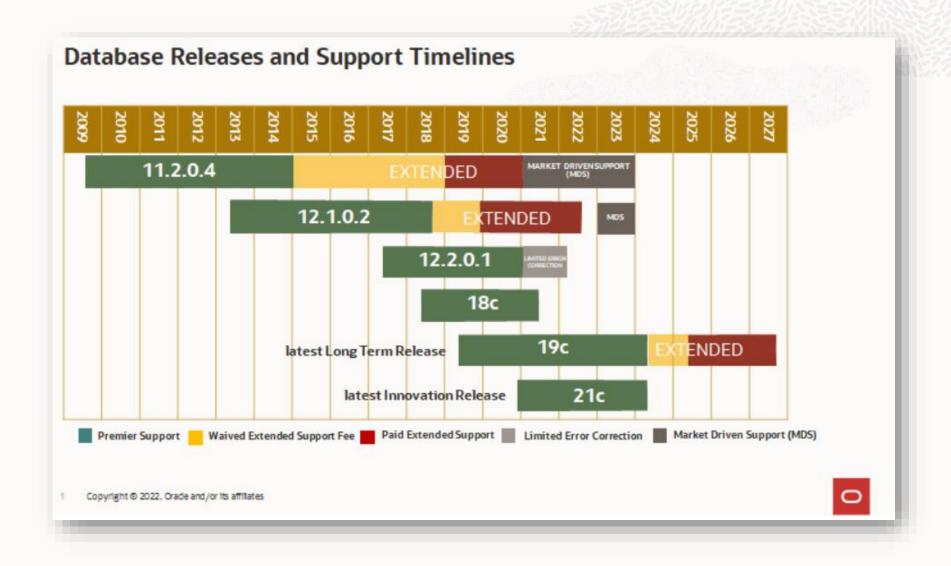


## Oracle Database Versions and Time Line



### **MOS – Database Releases and Support Timelines**

Understanding How to Deal with MOS Note (Doc ID 742060.1)





## MOS Market Driven Support



### **Oracle Market Driven Support**

Understanding all Extended Support Options for Databases 11g and 12c Database Versions

Oracle has setup Market Driven Support to provide extra assistance to those customers still in the process of moving off 11.2.0.4 and 12.2.0.1 This is an Advanced Customer Support (ACS) offering to assist customers in moving to Oracle Database 19c which is the current long-term release.



This support offering is limited to Oracle Database and coverage does not extend to new certifications, third-party products, or any Java/JDK functionality including Java components embedded in the database. No updates related to cryptography and network encryption will be supported during this timeframe.

Oracle Database 11.2.0.4 Market Driven Support (MDS) (Doc ID 2728619.1) Oracle Database 12.1.0.2 Market Driven Support (MDS) (Doc ID 2870402.1)



## Oracle Database Editions



#### Oracle Database DBCS Cloud Most Used Editions

#### Oracle Database Cloud Service Standard Edition (DBCS SE)

- Includes Oracle Database
   Standard Edition 2 software
- Full Database Instance
- Up to 8 CPU Cores
- Up 3 PDB's
- (TDE) Encryption



#### Oracle Database Cloud Service Enterprise Edition (DBCS EE)

- Up to 256 PDB's
- Tuning package
- Manage package
- (TDE) Encryption



# Oracle Database Cloud Service Enterprise Edition High Performance (DBCS EE-EP)

 Includes Oracle Database Enterprise Edition software plus many Oracle Database options and Oracle management packs



#### Oracle Database Cloud Service Enterprise Edition Extreme Performance (DBCS EE-EP)

Includes Oracle Database Enterprise
Edition software plus ALL Oracle
Database options and Oracle
management packs that are
appropriate for use in Oracle
Database Cloud Service.



Clique Aqui



#### **Oracle Database Exadata Cloud Most Used Editions**

## Oracle Database Exadata Cloud Service (ExaCS)

These offerings include Oracle Database Enterprise Edition software plus all Oracle Database options and Oracle management packs that are appropriate for use in Oracle **Database Exadata Cloud Service.** 

- RAC
- In-Memory
- HCC (Compression)
- Partition
- Tuning and Diag Packs
- Data Guard
- Smart Scan



## Oracle Database Exadata Cloud At Customer (CC)

This guide uses CC to describe the licensing policies for both Oracle Database Exadata Cloud Service and Oracle Database Exadata Cloud@Customer on Customer DataCenter

- Storage Index
- Advanced Security
- RAT (Real Application Testing)
- I/O Resource Managment
- Multitenant
- Smart Flash Cache Log



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### **Oracle Database On-premises most used editions**

## Oracle Database Standard Edition 2 (SE2)

- Includes Oracle Database Standard Edition 2 software
- Full Database Instance
- Up to 8 CPU Cores
- Up 3 PDB's



## Oracle Database Enterprise Edition (EE)

Oracle Database Enterprise Edition provides performance, availability, scalability, and security for developing applications such as high-volume online transaction processing (OLTP) applications, query-intensive data warehouses, and demanding Internet applications.

Oracle Database Enterprise Edition can be enhanced with the purchase of Oracle Database options and Oracle management packs.



### Oracle Database Enterprise Edition on Engineered Systems (EE-ES)

- RAC
- In-Memory
- HCC (Compression)
- Partition
- Tuning and Diag Packs
- Data Guard
- Smart Scan
- Storage Index
- Advanced Security
- RAT (Real Application Testing)
- I/O Resource Managment
- Multitenant
- Smart Flash Cache Log



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Some organizations are naturally cautious about upgrading their Oracle Database





### How Oracle Database 19c Enterprise Edition helps address key business concerns

The average cost of a data breach is \$4.62M

Security

 Multi-layered security that protects both your data and establishes trust for infrastructure, applications and users

70%
of public companies that outperform competitors will be data-driven

Innovate with new technology

 Oracle's converged database enables multi-data, multi-workload apps to allow you to get the most from your data, and provide the best experience for your customers

80%
of companies are doubling the speed of cloud migration

Journey to the cloud

- Automation and guidance to ensure you can take advantage of the cloud with minimal disruption
- Transition to Exadata/Exadata Cloud for performance when database fine-tuning still needed – and Autonomous Database when ready for the benefits of full automation



## Move Your Standard Database to ADB



#### Move Standard Database Workload Autonomous Database



#### **Autonomous Operation**

- Reduce intensive and manual DBA Tasks
- Auto Database Tuning, Pathing and Securing Capabilities

#### **Lowest cost to adopt Autonomous Database (ADB)**

- No additional infrastructure costs, pay only for ADB OCPUs
- Leverage features that drive a true pay-per-use consumption
- Use BYOL to reduce your costs and TCO

#### Simplest transformation for new and existing workloads

- Autonomous automation and optimized end-to-end
- Developer self-service for new database application development

https://blogs.oracle.com/database/post/migrate-dbse-to-atp



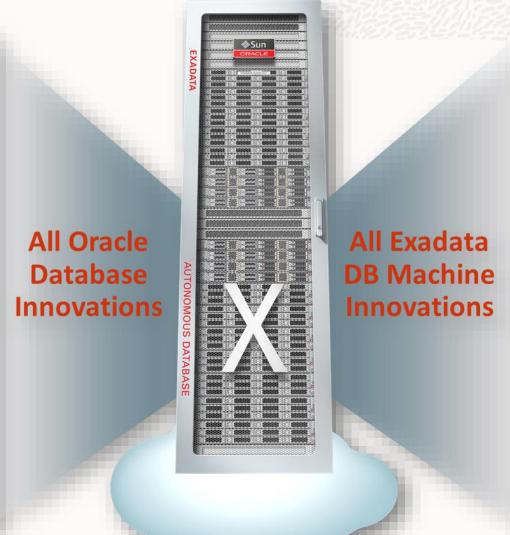
## Oracle Exadata Cloud Features

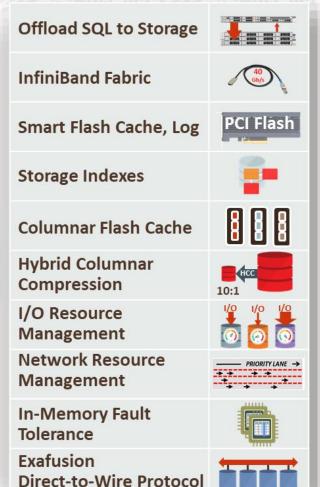


#### Exadata Cloud Most Powerful Database + Platform

Understanding Exadata Cloud Database Editions and Features









## High Availability and Disaster Recovery



### **Enterprise Edition enables Disaster Recovery (DR)**



#### **DR** = **Disaster Recovery**

Also known as business continuity

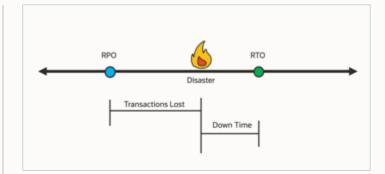
A redundant application environment that can withstand a disaster

Not the same as High Availability (HA)

#### Value of DR / Business Continuity

For businesses that transact business through their applications, seconds of downtime can mean millions of dollars.

DR and BC are often part of compliance regulations (e.g. SOX)

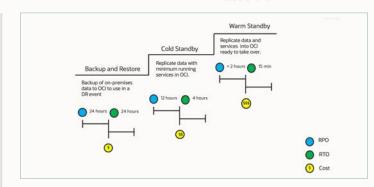


#### **RTO = Recovery Time Objective**

How quickly can my application be running again?

#### **RPO = Recovery Point Objective**

How many transactions can I stand to lose?

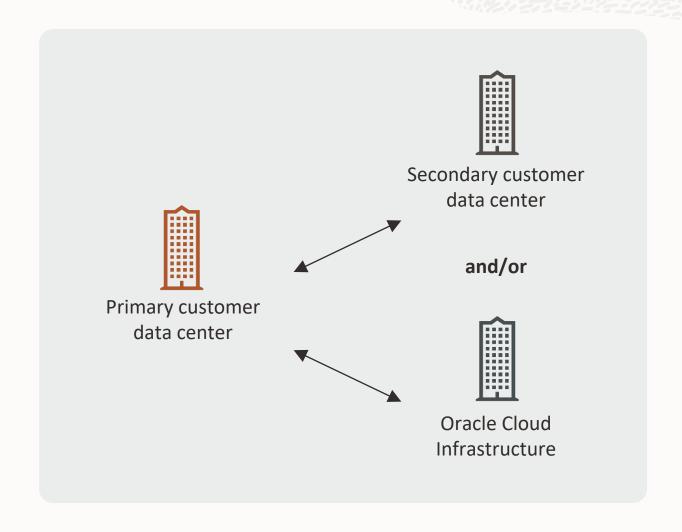


#### 3 DR OPTIONS:

- Backup Tolerate 24 hours of downtime and data loss
- Cold standby 15 minutes data loss and 24 hours downtime
- Warm standby Less than 15 minutes data loss and less than 15 minutes downtime



### Flexible HA/DR options: On-premises and Oracle Cloud Infrastructure





### **Enterprise Edition Maximum value from your Oracle HA and DR investments**

HA/DR technology and licenses are portable between on-premises and OCI configurations

Capability	Benefits	On-premises	BYOL to Oracle  Cloud Platform
MAA	Best practices for protecting Oracle databases	✓	✓
Real Application Clusters (RAC)	Maximize availability, add horizontal scalability, and uniquely ensure transaction integrity	✓	✓
Active Data Guard (ADG)	Create, maintain, manage, and monitor one or more standby databases to enable production Oracle databases to survive disasters and data corruptions	✓	✓
GoldenGate	Maintain continuous uptime for critical applications during planned and unplanned outages	✓	✓
Multitenant	Manages many databases as one, providing centralized control of HA and disaster recovery.	✓	✓

"Organizations are left potentially exposed when their heritage disaster recovery plans designed for traditional systems have not been reviewed with new hybrid infrastructures in mind."

Gartner Identifies the Top 10 Trends Impacting Infrastructure and Operations for 2021



## Oracle Database 19c Standard Edition



### **Oracle Database Standard 19c Edition Limits**

Parameter	Value
MAA (Data Guard / Active Data Guard)	NO
MAA (Oracle Real Application Cluster RAC)	NO
MAA (Oracle Real Application Cluster RAC One-Node)	NO
Diagnostic and Tuning Packages	NO
Transparent Data Encryption (TDE) for Columns on-prem	NO
Transparent Data Encryption (TDE) for Tablespaces on-prem	NO
Backup RMAN Block change Tracking	NO
Automatic Block Repair	NO



## Oracle Database 19c Enterprise Edition



## **Oracle Database Enterprise 19c Edition**

Parameter	Value
MAA (Data Guard / Active Data Guard)	YES
MAA (Oracle Real Application Cluster RAC)	YES
MAA (Oracle Real Application Cluster RAC One-Node)	YES
Diagnostic and Tuning Packages	YES
Transparent Data Encryption (TDE) for Columns on-prem	YES
Transparent Data Encryption (TDE) for Tablespaces on-prem	YES
Backup RMAN Block change Tracking	YES
Automatic Block Repair	YES



## MOS Useful links and Documents



### **My Oracle Support Useful Documents**

#### **Portal Features**

- Oracle Database 11.2 Market Driven Support (MDS) (Doc ID 2728619.1)
- Oracle Database 12.1.0.2 Market Driven Support (MDS) (Doc ID 2870402.1)
- Release Schedule of Current Database Releases (Doc ID 742060.1)
- <a href="https://www.oracle.com/br/database/standard">https://www.oracle.com/br/database/standard</a> [Oracle Database Standard Edition Customer References]
- https://blogs.oracle.com/database/post/migrate-dbse-to-atp [Move Database Standard Edition to ADP]
- https://docs.oracle.com/en/database/oracle/oracle-database/19/dblic/Licensing-Information.html
- <a href="https://docs.oracle.com/en/database/oracle/oracle-database/21/dblic/Licensing-Information.html">https://docs.oracle.com/en/database/oracle/oracle-database/21/dblic/Licensing-Information.html</a>



### **My Oracle Support Useful Documents**

Oracle Database 19c and 21c References

Oracle Database Technologies

https://www.oracle.com/database/technologies

Oracle Database

https://www.oracle.com/database

Oracle Database 19c

https://docs.oracle.com/en/database/oracle/oracle-database/19/index.html

Oracle Database 21c

https://docs.oracle.com/en/database/oracle/oracle-database/21/index.html

Introducing Oracle Database 21c

https://blogs.oracle.com/database/introducing-oracle-database-21c

Oracle Lift Services

https://www.oracle.com/cloud/cloud-lift





## Thank You ©

**Questions / Feedback / Training Suggestions** 

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Ask for help ©

## ORACLE