



# Exadata X10M

## New Features

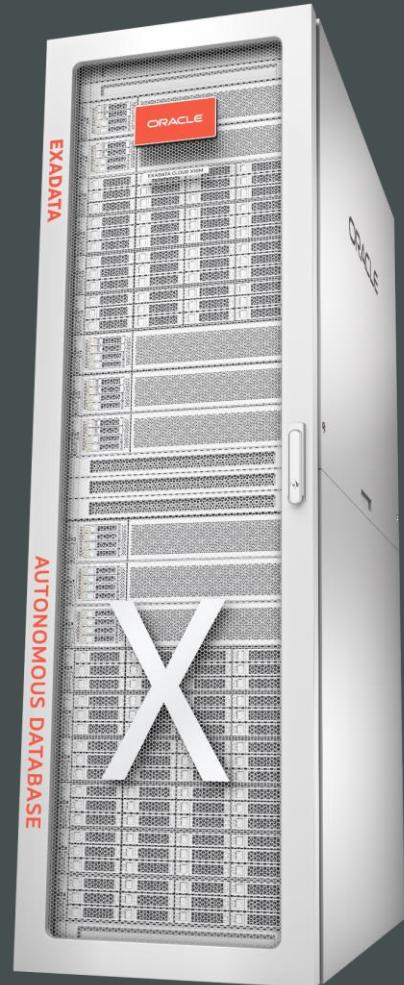
Providing dramatically increased scalability and improved cost performance

**Marcel Lamarca**

Exadata Cloud Specialist

LAD Alliances and Channels knowledge Team

July, 2023



# Nossos Valores

Integridade

Compliance

Trabalho em  
Equipe

Satisfação do  
Cliente

Qualidade

Ética

Inovação

Respeito  
Mútuo

Justiça

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.



# 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

## Oracle Certified Professional (OCP)

10g, 11g and 12c.

## Oracle Certified Specialist (OCE)

Grid/RAC Database Administrator 11g

# LAD Alliances Knowledge Team



## Alexandre Fagundes

- Security specialist
- Oracle Cloud Architect
- App's DBA
- Mysql

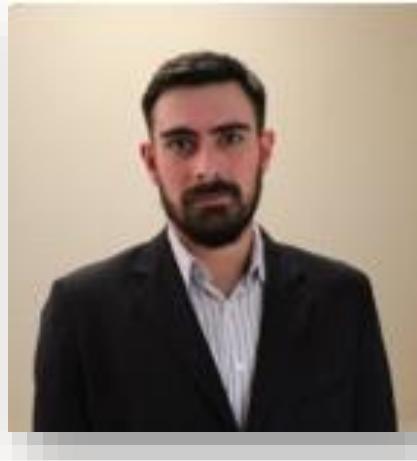
email: [alexandre.af.fagundes@oracle.com](mailto:alexandre.af.fagundes@oracle.com)



## André Sousa

- ISV Specialist
- Focused on projects

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## Rafael Silva

- Apex
- Kubernetes
- Analytics
- Developer

email: [farael.e.silva@oracle.com](mailto:farael.e.silva@oracle.com)

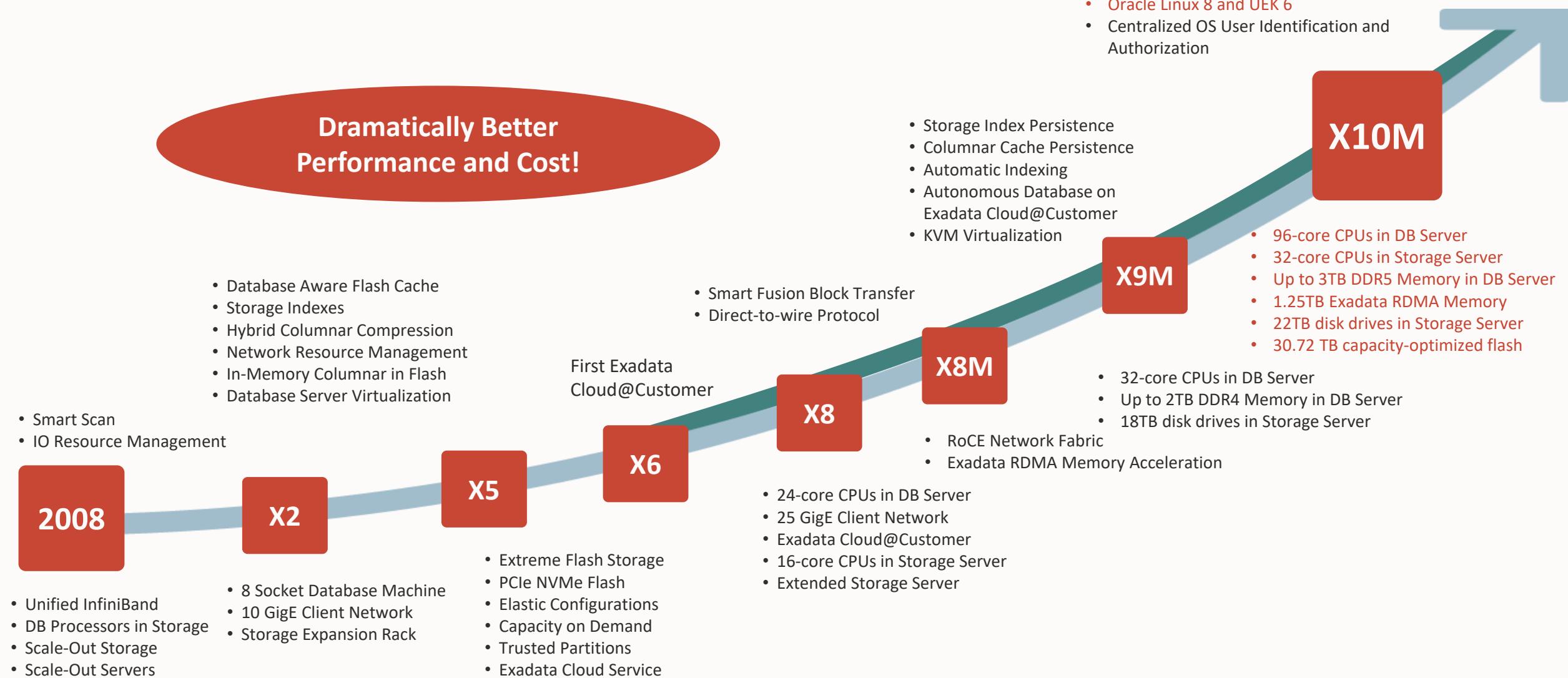


## Thiago Lemos

- Technical Leader
- Oracle Cloud Architect
- Devop's
- Autonomous Database

email: [thiago.lemos@oracle.com](mailto:thiago.lemos@oracle.com)

# Exadata Advantages Increase Every Year



# Exadata runs everywhere

Identicality across deployments improves IT agility and reduces costs

On-premises



Exadata Database  
Machine

[Click Here](#)

Public Cloud



Exadata in Oracle  
Cloud Infrastructure  
(OCI)

[Click Here](#)

Hybrid Cloud



Exadata  
Cloud@Customer

[Click Here](#)

Multicloud



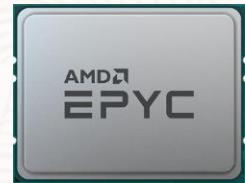
Exadata through Oracle  
Database Service for  
Azure

[Click Here](#)

# Exadata Cloud@Customer X10M:

5th generation Exadata Cloud@Customer  
based on the 12<sup>th</sup> generation Exadata platform

Featuring AMD EPYC™ CPUs



**Major Innovations Enable Extreme Scale with Dramatically Improved Cost Performance**



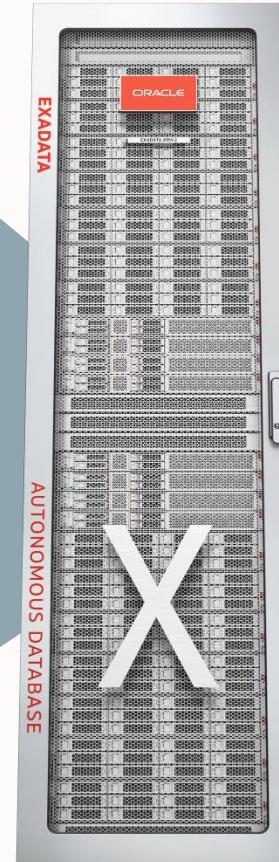
# Exadata X10M Features



# Oracle Exadata Database and Platform Innovations

- Multitenant
- In-Memory DB
- Real Application Clusters
- Active Data Guard
- Partitioning
- Advanced Compression
- Advanced Security, Label Security, DB Vault
- Real Application Testing
- Advanced Analytics, Spatial and Graph
- Management Packs for Oracle Database

All Oracle Database Innovations



All Exadata Innovations

Offload SQL to Storage



RoCE Fabric



PMEM Commit and Data Accelerators



Smart Flash Cache



Storage Indexes



Columnar Flash Cache



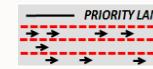
Hybrid Columnar Compression



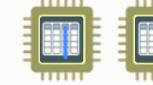
I/O Resource Management



Network Resource Management



In-Memory Fault Tolerance

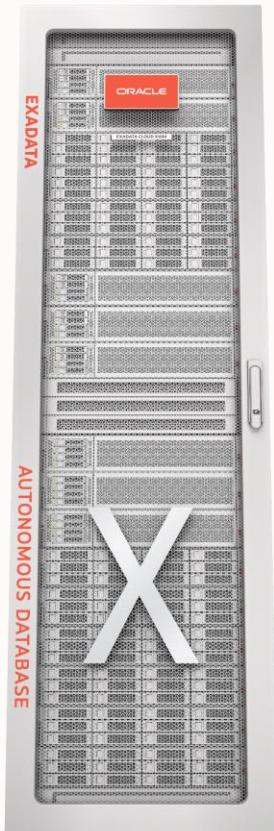


Exafusion Direct-to-Wire Protocol



# Exadata Cloud@Customer X10M

Extreme scale and performance with more capabilities throughout the stack



## Scale-out Database Servers

- **190** AMD EPYC usable processor cores per database server
- Up to **2,800 GB** of usable DDR5 Memory per database server

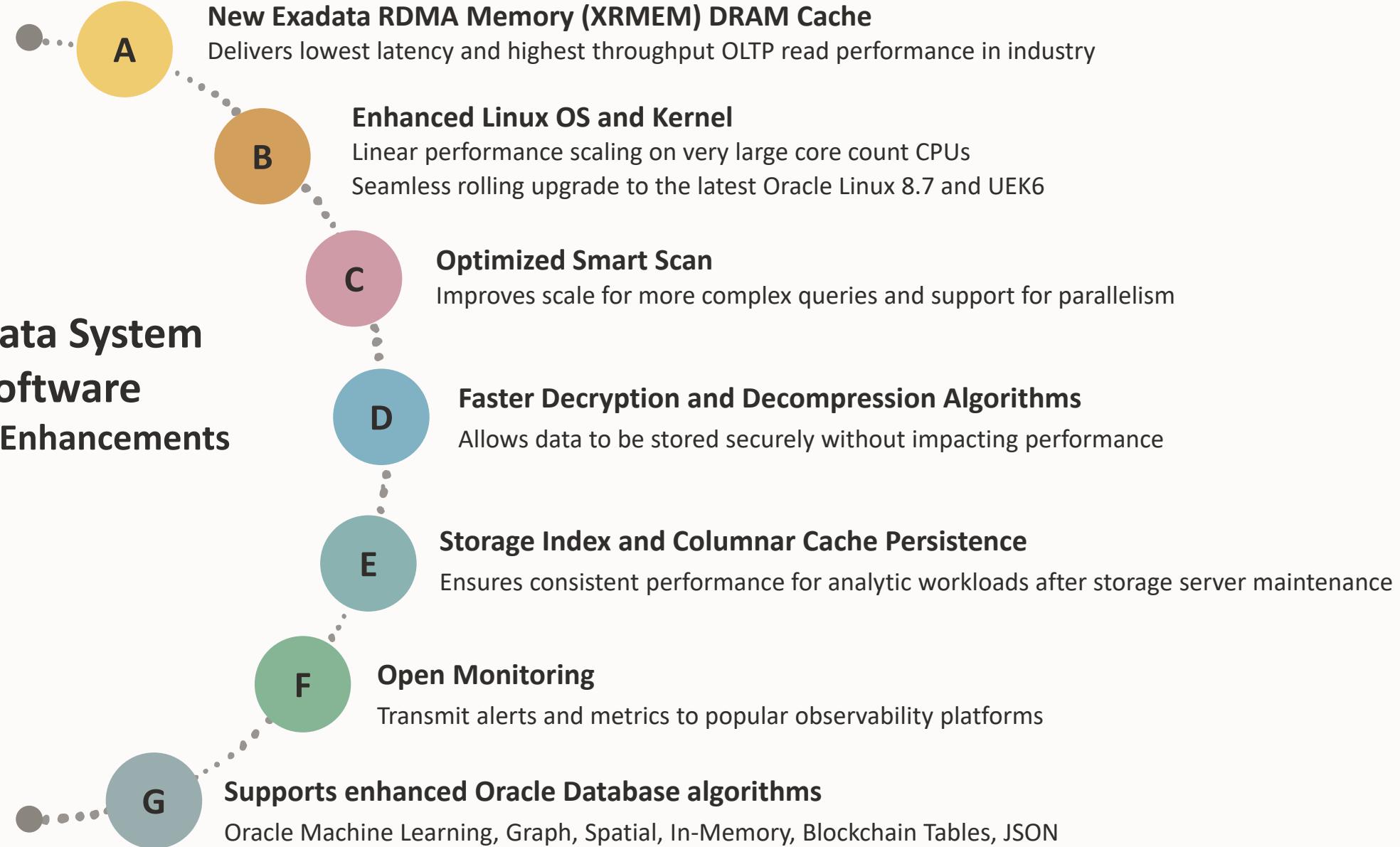
## Scale-out intelligent Storage Servers

- **64** AMD EPYC processor cores per storage server
- Three tiers of storage in each high capacity storage server with automatic tiering of data to minimize access latency and maximize throughput
  - **1.25 TB DDR5** Exadata RDMA Memory (XRMEM) plus
  - **27.2 TB** NVMe Flash plus
  - **80 TB** of usable disk space

## Dedicated active-active 100 Gbit/s RDMA over Converged Ethernet network

- Low-latency, high-bandwidth connectivity
- Links multiple racks of database and storage servers together

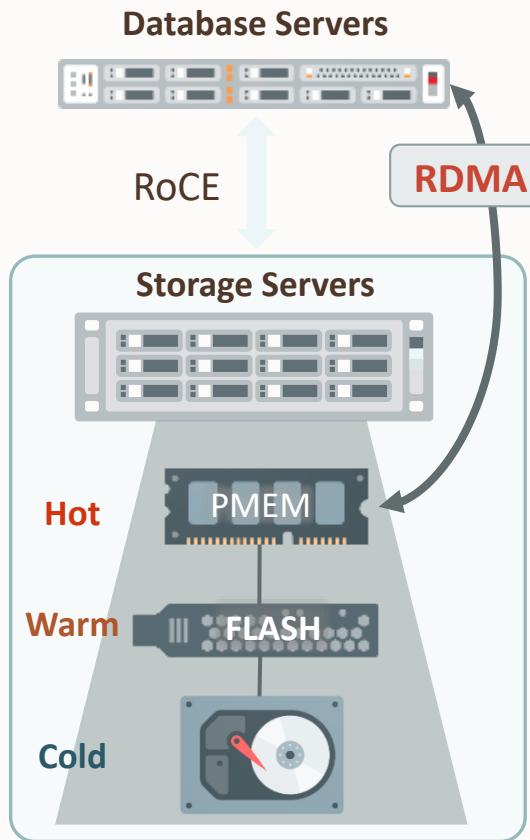
## Exadata System Software Recent Enhancements



# Storage Cell Comparison



# Exadata X9M Storage Cell architecture



## Scale-out system architecture and software

- Oracle RAC across multiple database servers for scaling and high availability
- Smart Scan offload of SQL to parallel intelligent storage servers
- Speeds up queries and scans with local access to data

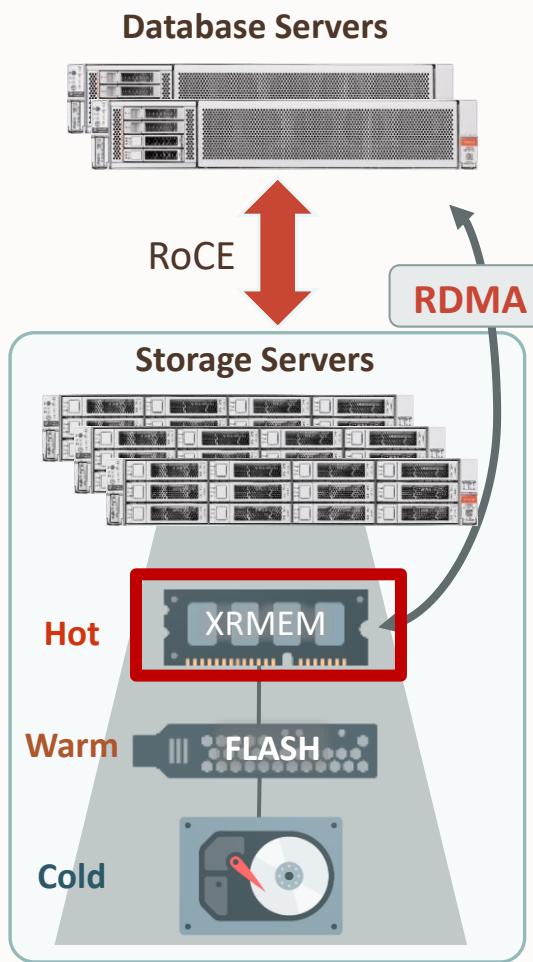
## Database uses RDMA instead of I/O to read PMEM in Smart Storage

- Bypasses network and I/O software, interrupts, context switches
- Hottest data transparently managed in PMEM
- Automatic redundancy across multiple storage servers
- Speeds up both database reads and commits

## Results - 19µs IO latency from Database to PMEM in Storage

- 10X faster than flash for OLTP

# Exadata X10M Architecture



## Scale-out system architecture and software

- Independent, online scaling of database and storage servers
- Scales from 2 to 210 Exadata X10M database servers
- Scales from 3 to 264 Exadata X10M storage servers
- Redundancy with fast failover provides high availability

## Database uses RDMA instead of I/O to read XRMMEM in Smart Storage

- Bypasses network and I/O software, interrupts, context switches
- Data is transparently managed in multiple storage tiers to minimize latency
- High-performance active-active 100 Gbit/s internal network maximizes throughput
- Speeds up both database reads and commits

## Database cluster virtualization

- Deploy environments with different needs on the same system
  - Dev-Test, Staging, Production, DR
  - OLTP, Analytics, Mixed Workloads
- Share and manage pools of resources to increase efficiency and lower costs
- Isolate resources to meet differing security and predictability requirements

# Performance Comparison



# Exadata Cloud@Customer X10M greatly improves **OLTP** performance

Performance **improvements** over Exadata X9M

Up to **3X**

## Higher Transaction Throughput

3X more cores per database server

Up to 9% faster per core performance

Up to **50%**

## Higher Flash Write IOPS in Storage Servers

1.3X more cores

916K IOPS per storage server

Up to **15%**

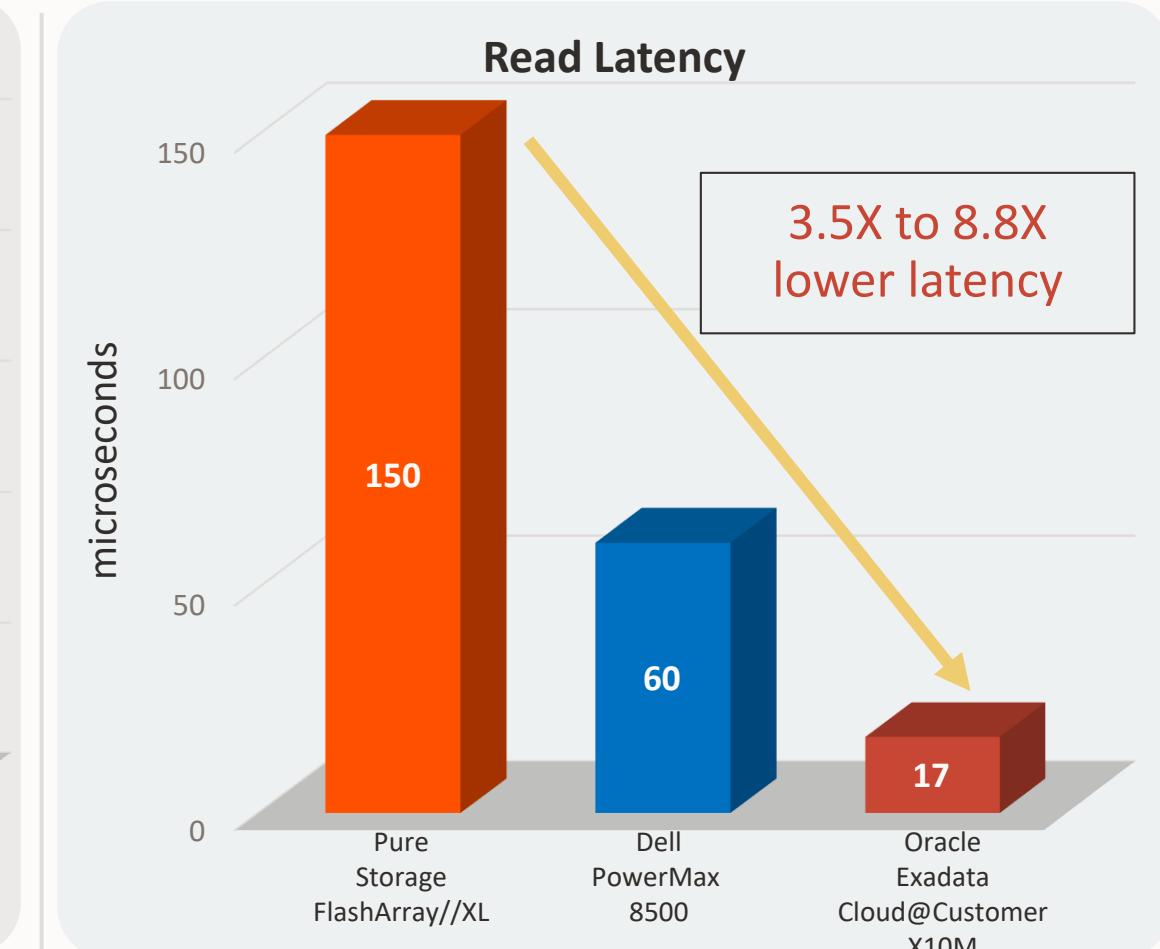
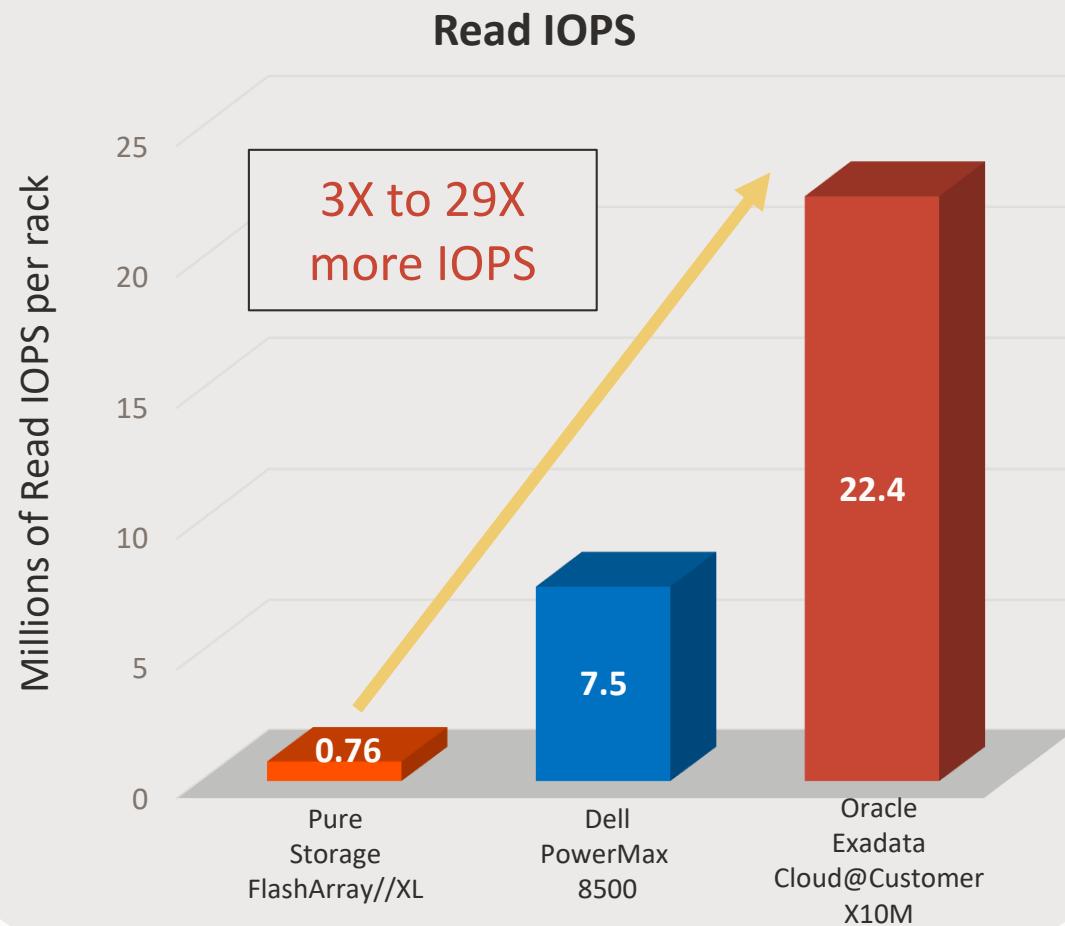
## Faster Read IOPS and Lower Latency

2.8 million 8K RDMA reads per storage server

< 17 microseconds latency



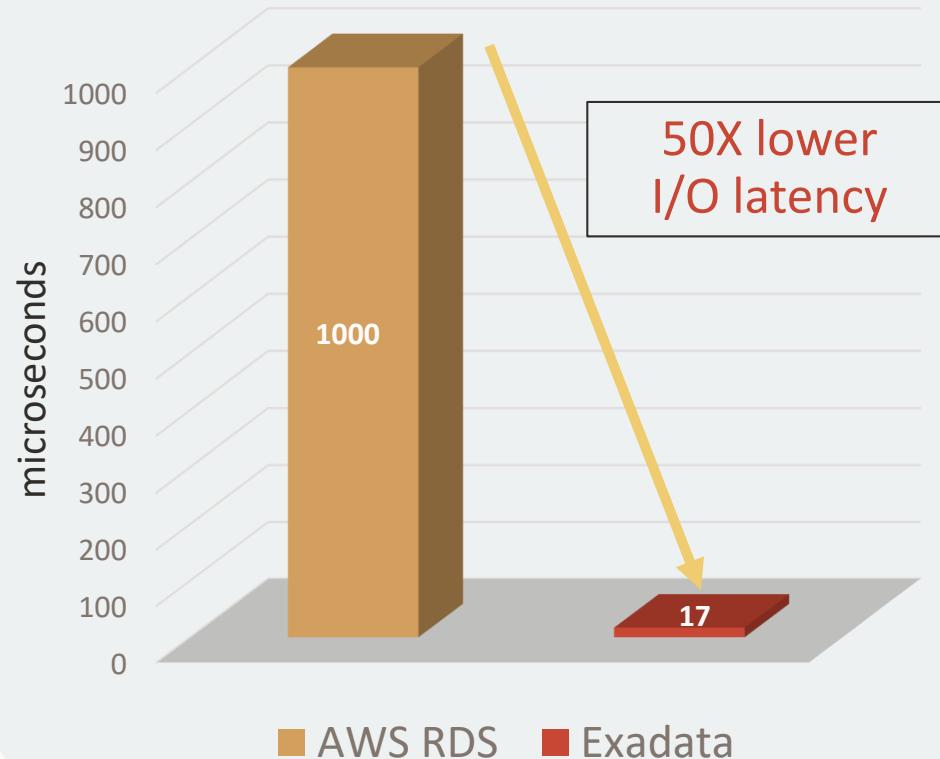
# Dramatically higher OLTP IOPS and lower latency than traditional on-premises platforms



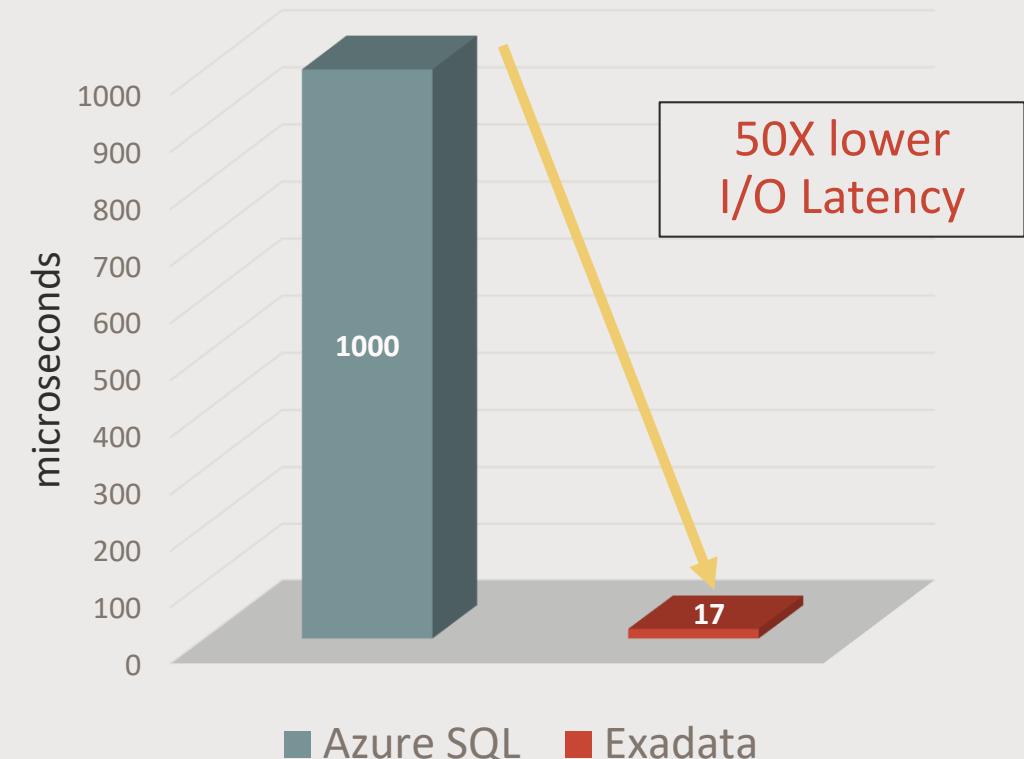
Single-rack capabilities – PowerMax scales to 2 racks, **Exadata Cloud@Customer X10M scales to 5+ racks**

## Dramatically Lower Latency than Cloud Flash Storage

Flash Storage on AWS vs. Exadata X10M



Flash Storage on Azure vs. Exadata X10M



# Exadata X10M greatly improves **analytics** performance

Performance **improvements** over Exadata X9M

Up to **3.6X**

## Faster database queries

3X more compute cores  
20% faster per core analytics

Up to **1.7X**

## Faster storage server queries

33% more storage cores  
30% faster per core smart scan

Up to **2.4X**

## Faster in-memory analytics scan

More cores  
Faster memory

Up to **35%**

## Faster Decryption

More cores enable flash scans on encrypted data  
to run at full flash bandwidth

Up to **25%**

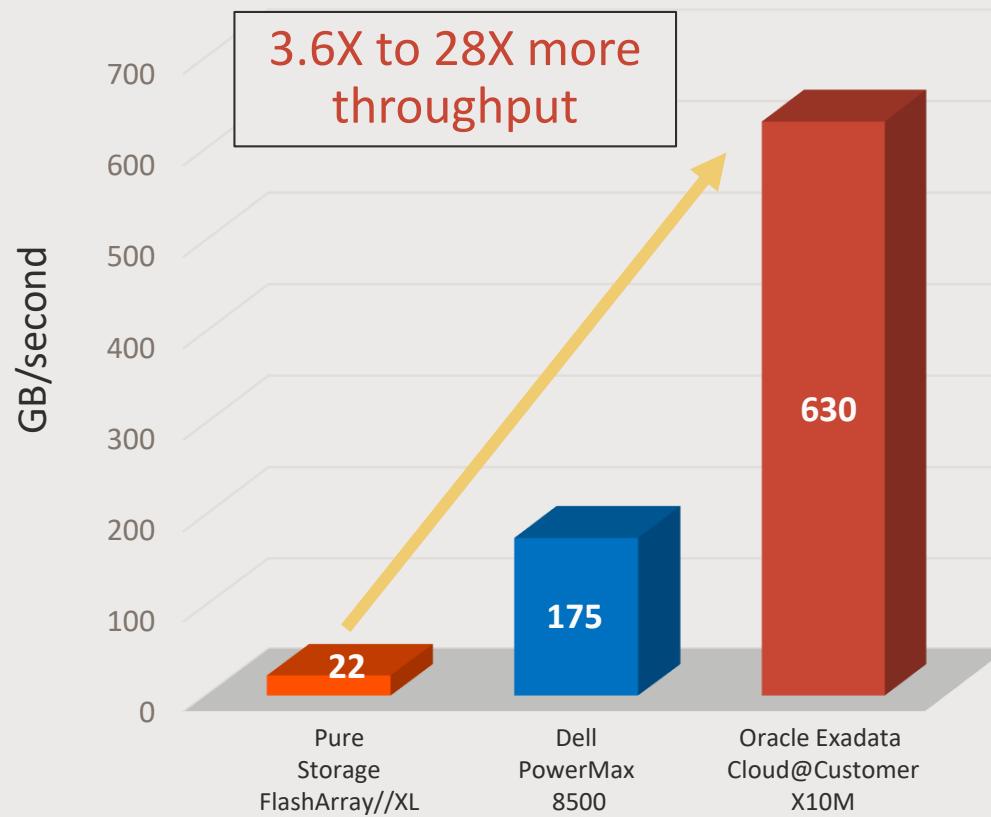
## More columnar cache capacity in flash

New compression algorithms enable storing  
more data

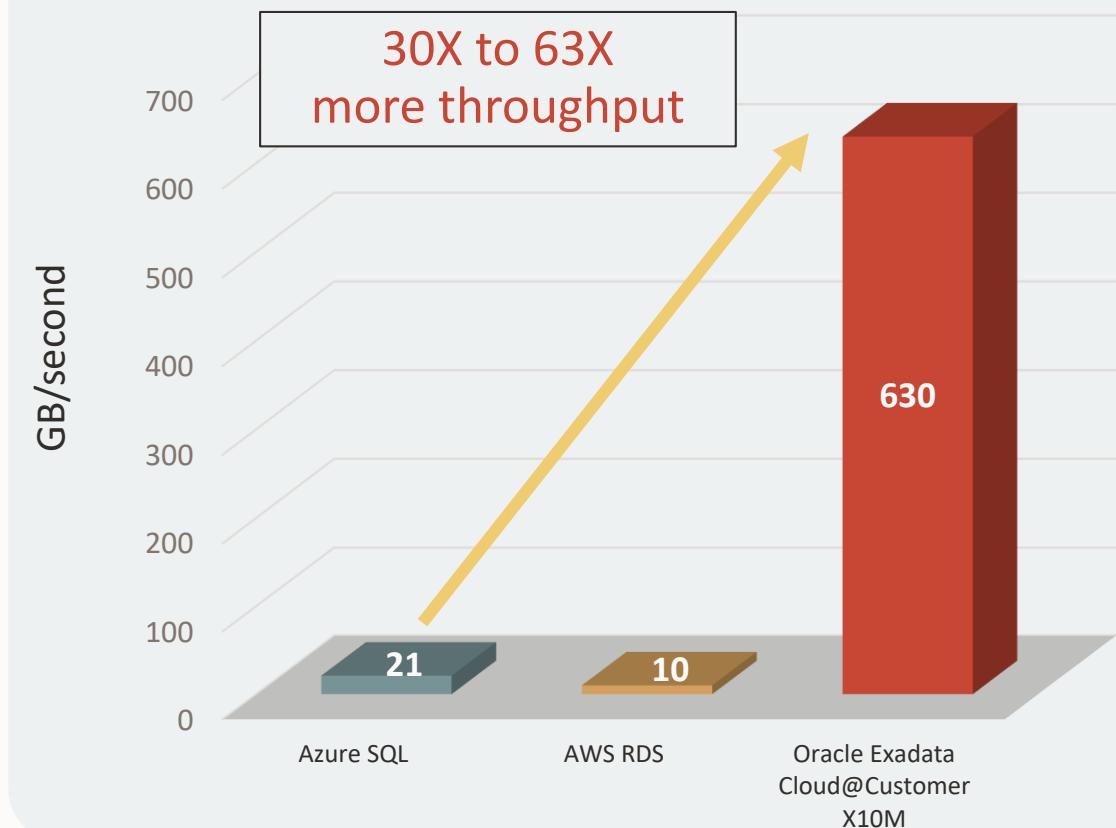


# Dramatically Higher **Analytics** Performance than Others

## On-Premises Throughput



## Cloud Throughput



Single-rack capabilities – PowerMax scales to 2 racks, **Exadata Cloud@Customer X10M** scales throughput 4.5X

# Exadata X10M greatly improves consolidation and capacity

Performance improvements over Exadata X9M

**2X**

## Higher Memory capacity

Up to 3 TB DRAM per database server  
for higher consolidation, larger  
in-memory columnar scans

**3X**

## More database server cores

Up to 96 cores per database servers  
for greater consolidation and  
more complex workloads

**22%**

## More disk storage capacity

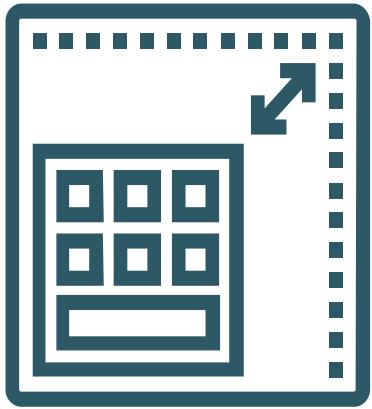
22 TB Disks replace 18 TB



# Shapes X9M Vs X10M

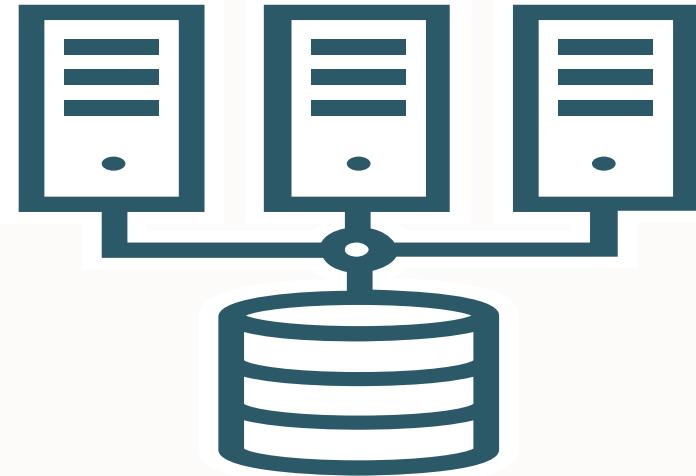


# Vertical vs Horizontal Scaling



## Vertical scaling (or "scaling up")

- Adding more hardware to an existing machine
- Run the same workload on better specs;
- For example, if a server requires more processing power, vertically scaling the device would mean upgrading its CPU.



## Horizontal scaling (or "scaling out")

- Add more nodes;
- Do not improve the specifications of the existing machine;
- Add more same-size servers to the cluster and share the workload across more devices.

# Exadata Cloud X9M Flexible Shapes

Available in high-performance, cost-effective shapes to match enterprise needs



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Storage ↑

## Base System

Ideal for small-scale consolidation and the lowest cost

- Total Flash 3.8 TB
- **2 DB Servers 3 Storages**
- 48 CPUs
- 73 TB usable storage

## X9M Quarter Rack

Ideal for large databases, small-scale consolidation, and petabyte-scale analytics

- Total Flash 76.8 TB
- **2 DB Servers 3 Storages**
- 124 OCPUs
- 190 TB usable storage, expandable to 763 TB
- 4.5 TB PMEM

## X9M Half Rack

Ideal for very large databases and medium-scale consolidation

- Total Flash 153.6 TB
- **4 DB Servers 6 Storages**
- 248 OCPUs
- 381 TB usable storage, expandable to 763 TB
- 9.0 TB PMEM

## X9M Full Rack

Ideal for large-scale consolidation for all type of database workloads

- Total Flash 307.2 TB
- **8 DB Servers 12 Storages**
- 496 OCPUs
- 763 TB usable storage
- 18 TB PMEM

Compute →

# Exadata Cloud@Customer X10M Shapes

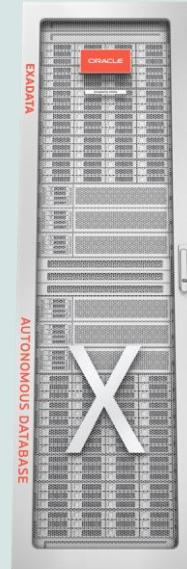


## Quarter Rack – X10M

### Total Capacity

DB Servers	380 Cores – 2,780 GB Memory
Storage Servers	192 TB Usable DB Storage

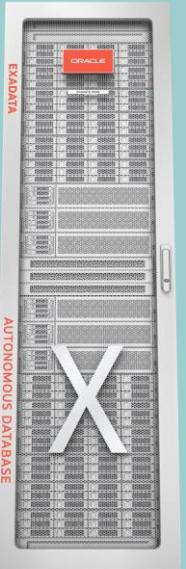
NEW  
SHAPE



## Quarter Rack – X10M - L

380 Cores – 4,180 GB Memory
192 TB Usable DB Storage

NEW  
SHAPE



## Quarter Rack X10M-XL

380 Cores – 5,600 GB Memory
192 TB Usable DB Storage

There are no Half and Full rack shapes.  
Expand Quarter Racks using Expansion Servers.

# Exadata Unique Cloud-Scale Database-Optimized Architecture

**Unique** Next Generation RAC Scale-Out for Any Workload

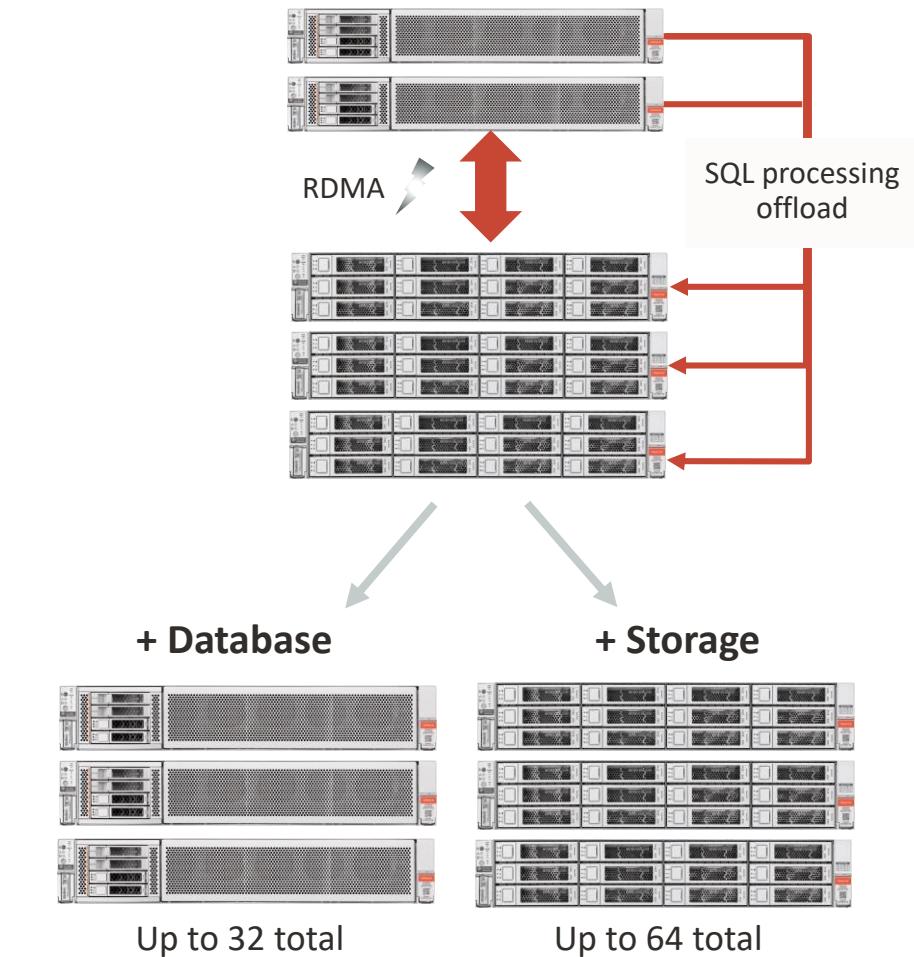
- Application-transparent database scalability & availability

Start small with minimum size High Availability configuration

- 2 Compute Servers, 3 Storage Servers
- Dedicated to you – no noisy or malicious neighbors

Add individual Database or Storage servers as needed

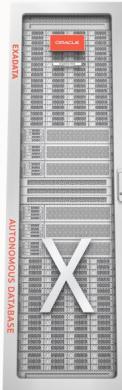
Expansion happens **fully online**



# Exadata Cloud@Customer X10M - Quarter Rack Expansions

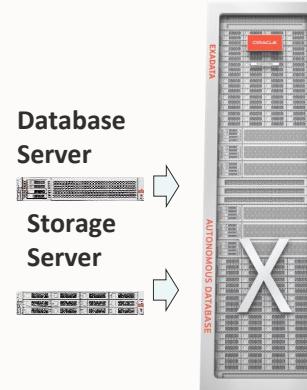
All Configurations greater than a Quarter Rack are elastic

Standard Configuration



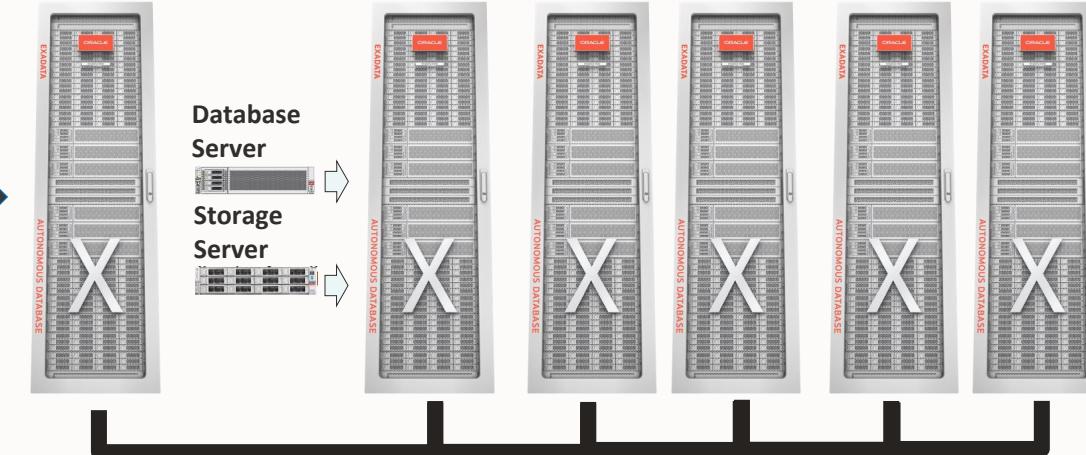
Incrementally add Database and Storage Servers

Elastic Configuration



Add Racks to Continue Scaling

Multi-Rack Configuration



## Start with a Standard Configuration

- Quarter Rack
- Quarter Rack-L
- Quarter Rack – XL

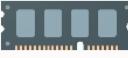
## Elastically Expand Rack with Servers

- Database Server
- Storage Server
- Can NOT mix Database Servers with different memory configurations
  - e.g. X10M cannot be mixed with X10M-XL

## Continue to Expand Servers using Expansion Rack(s)

- Up to 6 Racks including primary rack
- Max 32 Database Servers
- Max 64 Storage Servers
- Max 5 Expansion Racks

# Comparison X9M x X10M

Server Type	X9M Quarter Rack	X10M Quarter Rack	X10M-L Quarter Rack	X10M-XL Quarter Rack
 # of Usable DB Cores per DB Server	62		190	
 Usable DRAM (GB) per DB Server / Total all Servers	1,390	1,390	2,090	2,800
 PMEM/XRMMEM	4.5		3.75	
 Total Usable Disk Capacity (TB)	192		240	
 Max DB Size with no local backup (TB)	154		192	
 TB of Flash	76		81	

# Exadata Management Tools



# Cloud Automation for Common Lifecycle Tasks

## Oracle Cloud Web base UI, REST APIs, SDK, CLI, Terraform

- Scale OCPUs
- Create Database Homes and Databases
- Schedule Infrastructure Maintenance
- Update Operating System, Grid Infrastructure, and Databases
- Backup and recovery
- Enable Data Guard

The image shows two side-by-side Oracle Cloud configuration pages. On the left is the 'Create Database' page, where a new database named 'X8MDB1' is being created for Oracle 19c. It includes fields for PDB name (optional), Database Home (selected 'Create a new Database Home'), and Database Home display name ('X8MDBHome1'). On the right is the 'Scale VM Cluster' page, which allows configuring the OCPU count per virtual machine (set to 10) and the requested OCPU count for the Exadata VM cluster (set to 40). It also displays current Exadata storage at 150.528 TB.

A screenshot of the 'Create Backup' dialog. It has a 'Name' input field and a note explaining that a new backup configuration is created when switching from RMAN or dbcli to the console or API. It includes 'Create Backup' and 'Cancel' buttons.

A screenshot of the 'Enable Data Guard' dialog. It shows 'Data Guard association details' with protection mode set to 'Maximum Performance' and transport type set to 'Read-Only' (async). It also includes a 'Select Peer VM Cluster' section with a dropdown for the peer region ('US East (Ashburn)').

# Exadata Cloud Command Line Interface (*dbaascli*)

How to upgrade DBAAS Cloud Tooling using dbaascli (Doc ID 2350471.1)



## Database Commands

- *dbaascli* database create
- *dbaascli* pdb create
- *dbaascli* pdb relocate



## Backup Commands

- *dbaascli* database backup
- *dbaascli* database recover
- *dbaascli* create-dbstorage



## Database Home Patch

- *dbaascli* database upgrade
- *dbaascli* db home patch
- *dbaascli* grid patch
- *dbaascli* update-dbhomedir



[Click Here](#)

# Resources



# Exadata Academy 3.0 | Register Now



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## Oracle Exadata Cloud at Customer Academy

Para capacitar a nuestros Partners en Servicios OCI, creamos la nueva versión de la Academia Cloud at Customer.

Esta academia contará con **10 sesiones de capacitación**, a partir del **14 de julio**, que permitirán a los participantes conocer las principales características y funcionalidades de Oracle Exadata y PCA ¡También será una excelente oportunidad para aclarar todas sus dudas para obtener su certificación!

Únase a esta capacitación y descubra por qué Oracle Cloud at Customer es la forma más sencilla de mover cargas de trabajo críticas de Oracle Database de una organización a la nube.

Consulte la agenda a continuación e inscríbase. ¡Contamos con su participación!

<b>ExaC@C Overview</b> <b>14 de julio</b> 1:00 p.m. - 3:00 p.m. (Mexico Time)	<a href="#">Regístrate</a>
<b>PCA - Private Cloud Appliance</b> <b>26 de julio</b> 1:00 p.m. - 3:00 p.m. (Mexico Time)	<a href="#">Regístrate</a>
<b>C@C Patching – Demo Session</b> <b>28 de julio</b> 1:00 p.m. - 3:00 p.m. (Mexico Time)	<a href="#">Regístrate</a>
<b>C@C Backup &amp; Restore – Demo Session</b> <b>3 de agosto</b> 1:00 p.m. - 2:30 p.m. (Mexico Time)	<a href="#">Regístrate</a>
<b>Migration and move to Cloud – Demo Session</b> <b>10 de agosto</b> 1:00 p.m. - 2:30 p.m. (Mexico Time)	<a href="#">Regístrate</a>
<b>Troubleshooting tools – Demo Session</b> <b>24 de agosto</b> 1:00 p.m. - 2:30 p.m. (Mexico Time)	<a href="#">Regístrate</a>
<b>Monitoring – Demo Session</b> <b>31 de agosto</b> 1:00 p.m. - 2:00 p.m. (Mexico Time)	<a href="#">Regístrate</a>
<b>Smart Scan, HCC compression &amp; In-Memory – Demo Session</b> <b>14 de septiembre</b> 1:00 p.m. - 3:00 p.m. (Mexico Time)	<a href="#">Regístrate</a>
<b>A&amp;Q for Certification</b> <b>21 de septiembre</b> 1:00 p.m. - 3:00 p.m. (Mexico Time)	<a href="#">Regístrate</a>
<b>C@C New Features - Demo Session</b> <b>28 de septiembre</b> 1:00 p.m. - 3:00 p.m. (Mexico Time)	<a href="#">Regístrate</a>

[Click Here](#)



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# Exadata Cloud at Customer on Up to August, 31th 2023

The screenshot shows a video player interface for a course titled "Oracle Base Database Services Professional Workshop". The video frame displays a slide with the title "Mission-critical cloud database capabilities where you need them" and a sub-section "1 Exceptional Performance, Availability, and Security" which lists three bullet points: "Superior architecture with unique software optimizations", "Full-stack redundancy and integrated disaster recovery", and "Defense in-depth security". The video player includes standard controls like play, pause, and volume, and shows a progress bar at 28:56 / 30:20.

## Database Services Oracle Base Database Services Professional (2023)

Data Architect

[Click Here](#)

The playlist view shows the course structure. The main course title is "Course 7h 41m" with a progress bar at 2%. Below it is a search bar and skill check options. The first section is "2 : Exadata Database Service" which contains the following items:

- Exadata Database Service Overview (30m) - marked as completed
- Exadata: Network, Infrastructure, VM Cluster Overview (28m)
- Exadata Infrastructure and VM Cluster Management (28m)
- Database Lifecycle Management (New 38m)
- Management Tools (New 21m)



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Low Code Developer

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# Exadata Cloud Oracle on Architecture Center



Help Center Architecture Center exadata cloud at customer

## Oracle Architecture Center

Design, develop, and implement your cloud, hybrid, and on-premises workloads with guidance from Oracle architects, developers, and other experts versed in Oracle technologies and solutions.

Contact a Cloud Expert

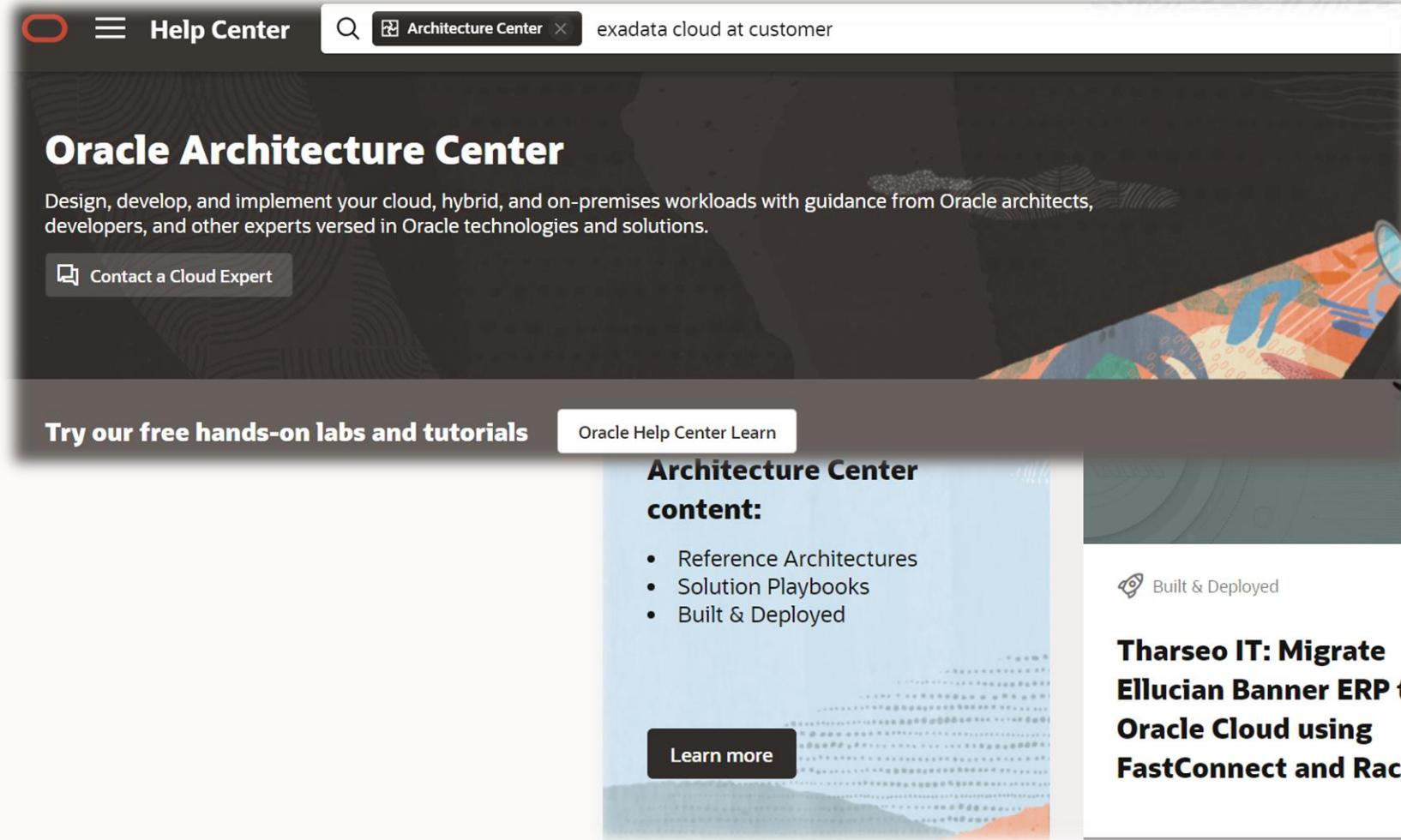
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Oracle Help Center Learn

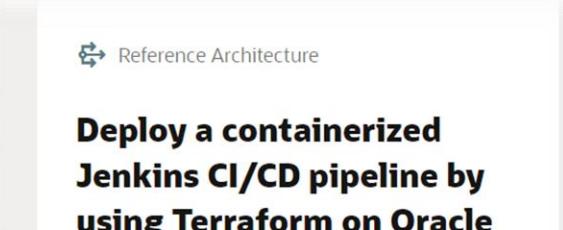
### Architecture Center content:

- Reference Architectures
- Solution Playbooks
- Built & Deployed

Learn more







**Tharseo IT: Migrate Ellucian Banner ERP to Oracle Cloud using FastConnect and Rackware**

Built & Deployed

Automation Available

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# Ask Tom Oracle Site

The screenshot shows the top navigation bar of the website. It includes a logo for 'ASK TOM', a search bar with placeholder text 'Search Questions...', and a 'Sign In' button. Below the navigation bar, there are five main menu items: 'Questions', 'Office Hours' (which is currently selected), 'Videos', 'Resources', and 'Classes'. The 'Office Hours' section features a large heading 'Office Hours' and a sub-section titled 'Free training, how-tos and Q&A with Oracle experts. [FAQ](#)'. There is also a QR code in the top right corner.

This screenshot shows the 'Upcoming Sessions' section with a count of 44. It lists two sessions: 'Forms, Tipuri de rapoarte și metode de căutare într-un raport' on June 12 at 14:00 and 'Oracle Database In-Memory Summit 2023 Session 1' on June 13 at 15:00. Both sessions have profile pictures and a 'View Recordings' button. Below this, the 'Recently Answered' section displays two questions. The first question is about 'JSON\_QUERY for varchar2 limitation' and the second is about 'dbms\_lock.sleep procedure'. Each question has a profile picture of the asker and a snippet of the question text.

[Click Here](#)



# Oracle Cloud Free Tier



## What's included with Oracle Cloud Free Tier?

### Always Free services

Services you can use for an unlimited time.

- Two Oracle Autonomous Databases with powerful tools like Oracle APEX and Oracle SQL Developer
- Two AMD Compute VMs
- Up to 4 instances of ARM Ampere A1 Compute with 3,000 OCPU hours and 18,000 GB hours per month
- Block, Object, and Archive Storage; Load Balancer and data egress; Monitoring and Notifications

[See below for a list of eligible services](#)



### Start with a US\$300 cloud credit

You'll have 30 days to use it—in addition to Always Free services.

- 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

## What are Always Free services?

### Infrastructure

- 2 AMD based Compute VMs with 1/8 OCPU\*\* and 1 GB memory each
- Arm-based Ampere A1 cores and 24 GB of memory usable as 1 VM or up to 4 VMs with 3,000 OCPU hours and 18,000 GB hours per month
- 2 Block Volumes Storage, 200 GB total
- 10 GB Object Storage – Standard
- 10 GB Object Storage – Infrequent Access
- 10 GB Archive Storage
- Resource Manager: managed Terraform
- 5 OCI Bastions

### Databases

- Your choice of Oracle Autonomous Transaction Processing, Autonomous Data Warehouse, Autonomous JSON Database, or APEX Application Development. Two databases total, each with 1 OCPU\*\* and 20 GB storage.
- NoSQL Database with 133 million reads per month, 133 million writes per month, 25 GB storage per table, up to 3 tables.

### Observability and Management

- Monitoring: 500 million ingestion datapoints, 1 billion retrieval datapoints
- Application Performance Monitoring: 1000 tracing events and 10 Synthetic runs per hour
- Logging: 10 GB per month
- Notifications: 1 million sent through https per month, 1000 sent through email per month
- Service Connector Hub: 2 service connectors

### Additional services

- Flexible Load Balancer: 1 instance, 10 Mbps
- Flexible Network Load Balancer
- Outbound Data Transfer: 10 TB per month
- Virtual Cloud Networks (VCN): Maximum of 2 VCNs, includes IPv4 and IPv6 support
- VCN Flow Logs: Up to 10 GB per month shared across OCI Logging services
- Site-to-Site VPN: 50 IPSec connections
- Content Management Starter Edition: 5000 assets per month
- Certificates: 5 Private CA and 150 private TLS certificates
- Email Delivery: 3,000 emails sent per day

[Click here](#)



# Stay Connected with the Latin America Partner Community!

Information, collaboration and training all in a single spot.

The [\*\*LAD Partner Community\*\*](#) is a space dedicated to our partners in Latin America, where you can find information and stay up to date on what OPN has to offer.

In the Community, you will find all the information that we communicate to our ecosystem by email.

- Explore [\*\*Categories\*\*](#): organized by grouping publications on a same topic;
- Access the [\*\*Recent Discussions\*\*](#) tab to check the latest posts published;
- Take part in [\*\*Groups\*\*](#) and interact with Oracle Experts and other partners;
- Recordings.

**Important:** An Oracle SSO account is required to access the Community and other OPN resources. If you don't have this account yet, access [this link](#) or the QR code below.

Access the Community:



Create your SSO account:



# OPN Web Page



## Oracle PartnerNetwork (OPN) Members

# Welcome to the OPN Portal!

Expertise is the cornerstone of OPN - customer success is the reward.

The OPN Portal provides guidance to enable your journey to customer success and make partnering with Oracle as simple as possible.

- **Build Expertise** leveraging skills transfer, environments and technical assistance
- **Go-to-Market** using tools and guidance on how to take your solutions and services to market
- **Stay Connected** with the latest OPN has to offer and ask questions in our Partner Community Forums
- **Manage Your Membership** by monitoring your Expertise achievements, executing agreements, updating your Partner Finder profile, and more

## Have you heard?



### 4 Steps to Marketing Success

Take a quick tour now of the marketing resources available to you from Oracle. This Partner's Guide to Oracle Marketing Resources infographic will help you explore and discover valuable steps to boost your business.

[Get Started](#)

[Click here](#)

Log in to the OPN Portal

[Login](#)

First time visiting? [Register for access](#)

Video: [Things to know before you register](#)

Need Help?

Our Partner Assistance agents are ready to assist.





**Thank You 😊**

**Questions / Feedback / Training Suggestions**

[marcel.lamarca@oracle.com](mailto:marcel.lamarca@oracle.com)

**Ask for help 😊**

# ORACLE

