ORACLE

# Oracle Cloud Systems Portfolio

Enabling the information age


**Marcel Lamarca**

Licences & Systems LAD

**xandre Fagundes**

d Architect


LAD Partner Enablement

July, 2023

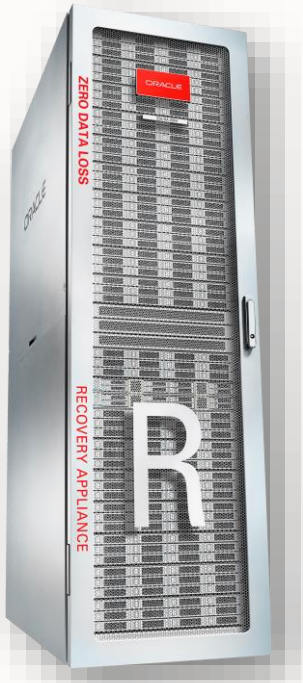

# Scan me to download this presentation!

SCAN ME

# Oracle Cloud Systems Portfolio

## ZFS Storage Appliance

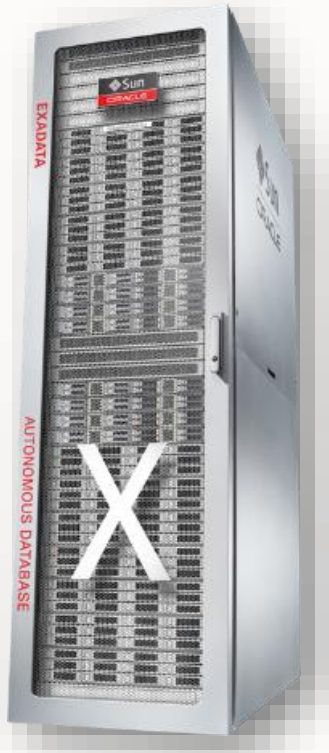

## Zero Data Loss Recovery Appliance




**Data Protection**

## Oracle Database Appliance

## Exadata




**Databases**

## Private Cloud Appliance


**Middleware / Apps**

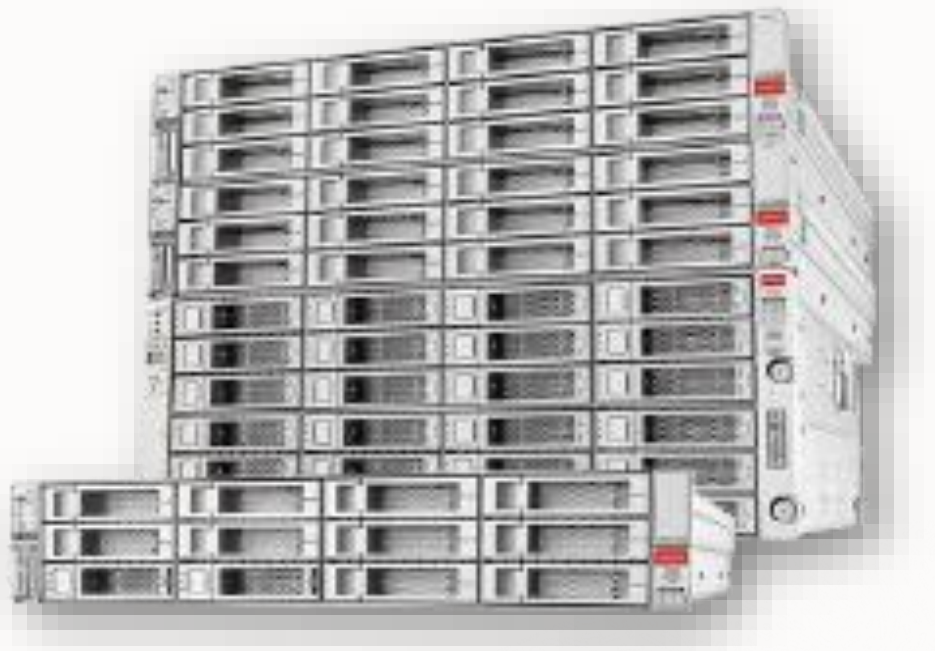
# Oracle Database Appliance

# Oracle Database Appliance

The simplest, most affordable solution for Oracle Database and applications

SCAN ME

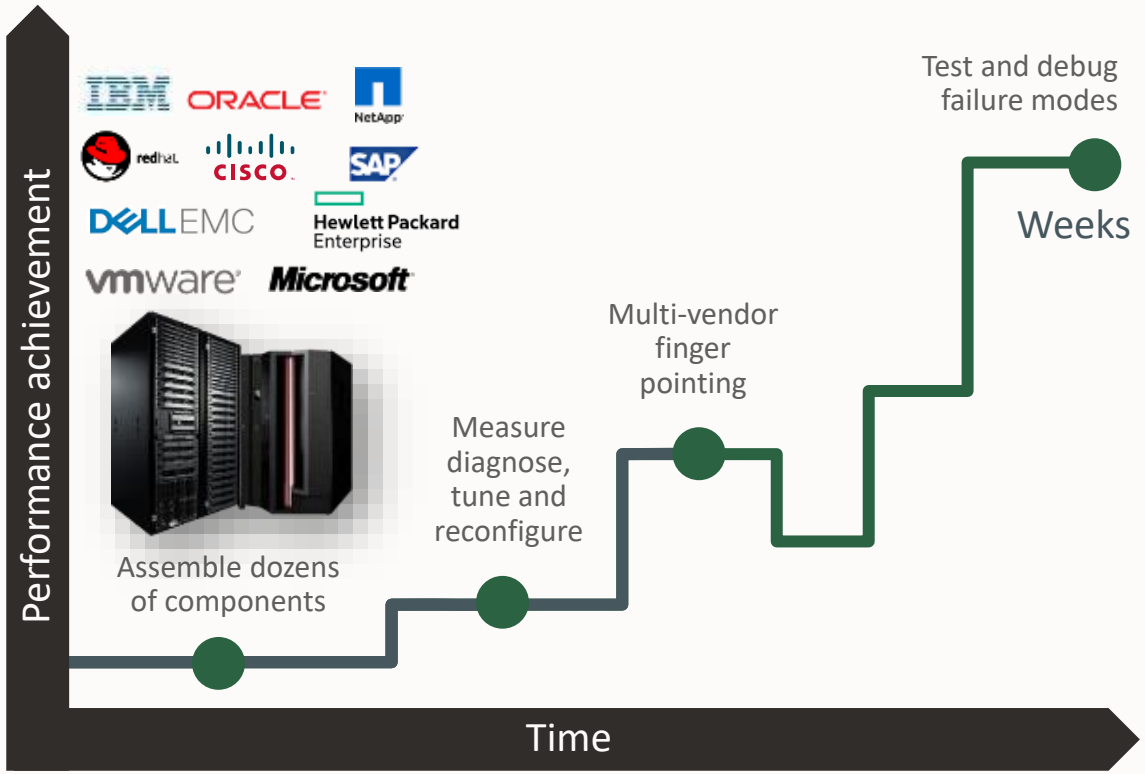
- Costs less than DIY alternatives
- Fast and easy to install
- Secure throughout the entire stack
- Reduces risk and uncertainty

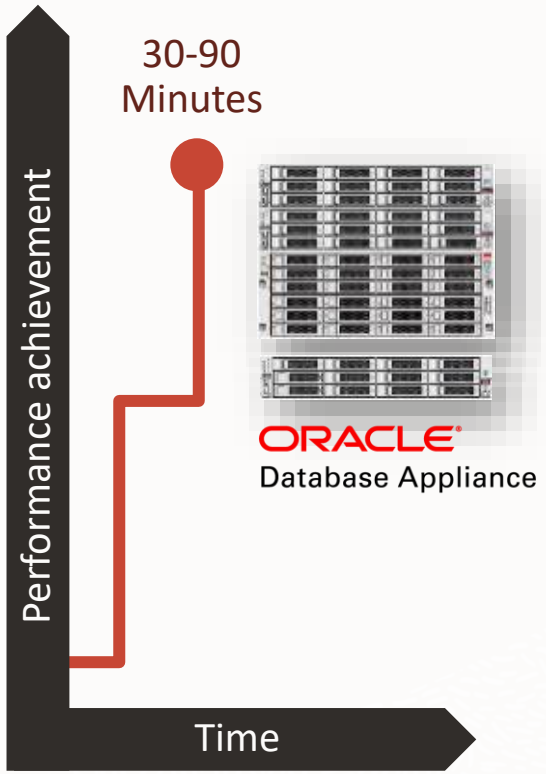


Discover more: [www.oracle.com/oda](www.oracle.com/oda)

# Reduced OPEX through simplicity and automation

Build your own (Dell, HP, CISCO, etc.)




## Key benefits

- Simplify IT environment
- 40% reduced TCO
- License only the cores you use
- 10X faster deployment time
- 20X less maintenance

# Get the most out of your Oracle Database investment

Oracle Database Appliance is a complete system designed for Oracle Database and applications

| | | | | |
|---|---|---|---|---|
| **Fast deployment and results** | **Reduces risk** | **Affordable** | **All supported by Oracle** | **Integrated with OCI** |

# Oracle Database Appliance X9 Model Family

PERFORMANCE HIGHER

What's New?

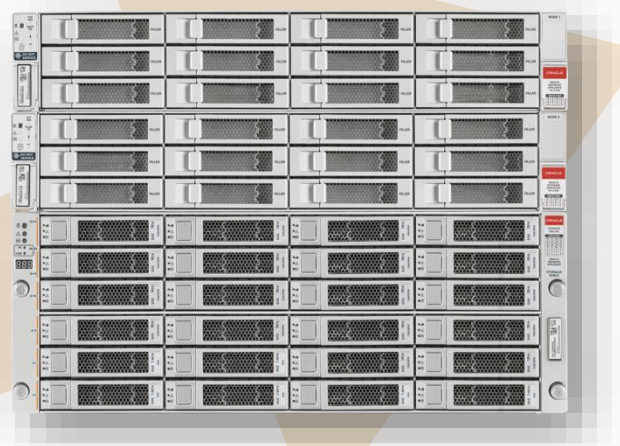
- Latest Intel Xeon processor technology
- Increased storage capacity
- 33% more capacity and faster RAM

**Oracle Database Appliance X9-2S**

Single-instance
16 Cores
256 GB Memory, expandable to 512 GB
Up to 3x Public Network Cards
13.6 TB Data Storage (Raw)

**Oracle Database Appliance X9-2L**

Single-instance
32 Cores
512 GB Memory, expandable to 1 TB
Optional: 2TB PMem
Up to 3x Public Network Cards
13.6 TB Data Storage,
expandable up to 81.6 TB (Raw)

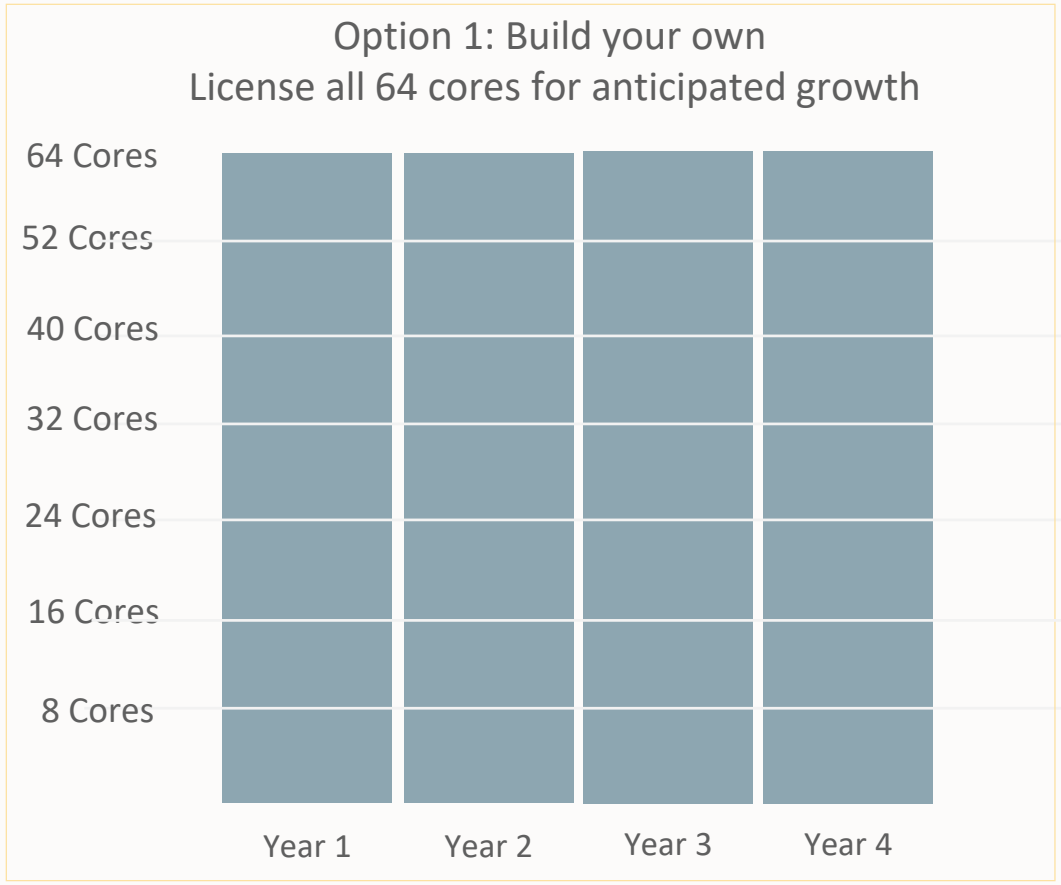


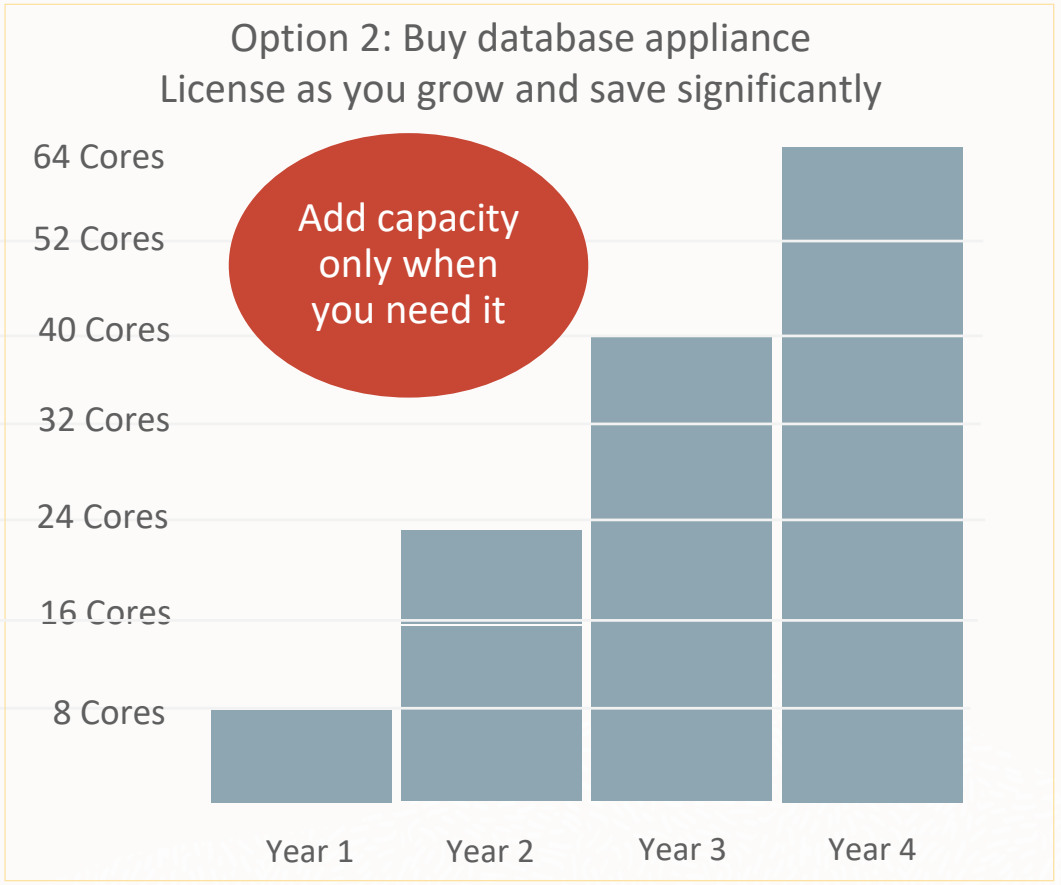
**Oracle Database Appliance X9-2-HA**

Single-instance and RAC
64 Cores
1 TB GB Memory, expandable to 2 TB
Up to 3x Public Network Cards per Server
46 TB SSD Data Storage, expandable up to
368 TB SSD or up to 92 TB SSD / 648 TB HDD (Raw)

CAPACITY HIGHER

# Manage license costs using capacity on-demand



# Enhanced Security

## Layered approach to build a secure system

| | |
|---|---|
| **Secure Oracle Operating System** | Ultra secure operating system that defaults to highest levels of security |
| **Advanced Security Features** | Supports security options: Advanced Security, Audit Vault Database Firewall, and Database Vault |
| **Secure Out of the Box** | Installs only the required RPMs to run the stack |
| **Timely System Updates** | Single patch file for entire stack |
| **Complete In-House HW Design** | BIOS, Processor instruction encryption, service processor firmware designed 100% by Oracle |

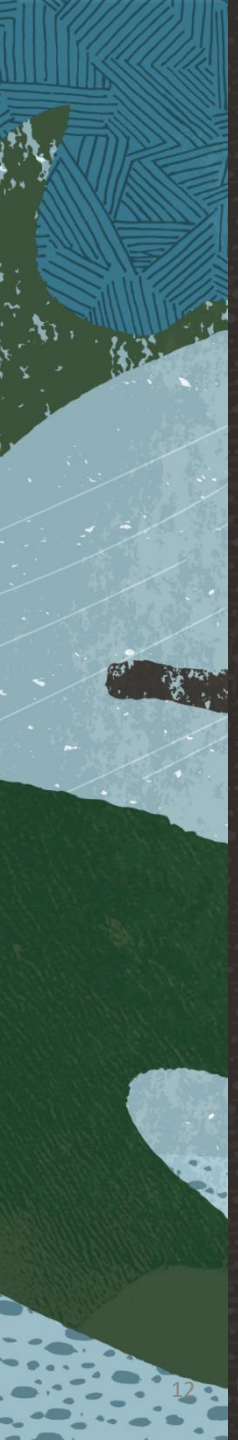

# IDC customer business value analysis of Oracle Database Appliance

"The result for this sample of Oracle customers is **strong value** relative to investment costs in Oracle Database Appliance, which IDC projects will lead to an average five-year ROI of **498%**."

**Customer's say:**

**Speed:** "It's about seven times faster. Our load time for a full database load has gone from around 40 hours to 4 hours."

**Value:** "We have 90 servers with Oracle Database Appliance, but **if we used traditional servers**, we'd need maybe around 120… **we would be paying probably about 30% more in licensing, about $1 million more per year**."



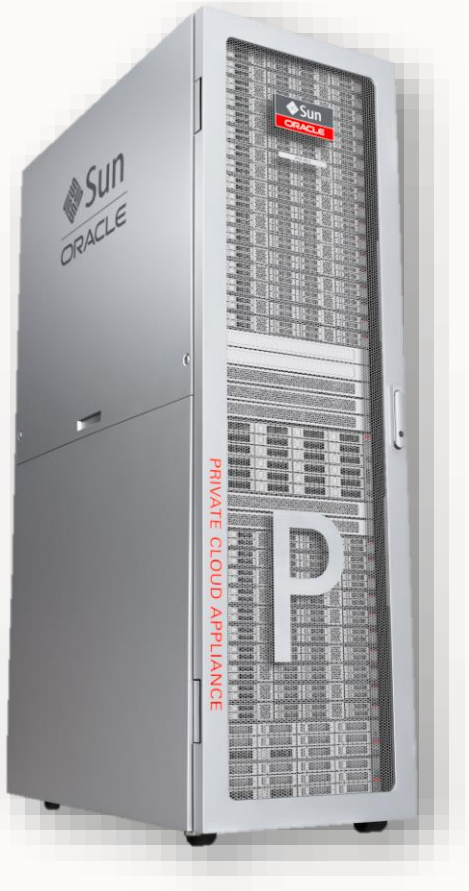
# Private Cloud Appliance

Converged System designed for fast and rapid application deployments

# Oracle Private Cloud Appliance X9-2

The Datacenter in a box Provides value for today´s digital business

SCAN ME




- On-premises cloud native converged infrastructure that allows customers to efficiently **consolidate business critical middleware and application workloads**
- Works with Oracle Exadata Machine to provide a powerful, single-vendor, application and database solution for today’s data driven enterprise
- Runs enterprise workloads alongside cloud native applications to support a variety of application requirements
- Compliments Oracle Cloud Infrastructure providing customers with a complete solution to securely maintain workloads both on-premises and in public clouds
- Built in support for Oracle’s Linux Cloud Native Environment, containers, and micro-services, decoupling the workloads from the infrastructure for application portability

Click Here

# Oracle Private Cloud Appliance

## The best platform for middleware and applications in customer data centers

### Manage diverse workloads

- Supports multiple operating systems (Oracle Linux, Oracle Solaris, and Windows)
- Runs enterprise workloads alongside cloud-native applications
- Proven consolidation platform


### Deploy mission critical Oracle applications and middleware

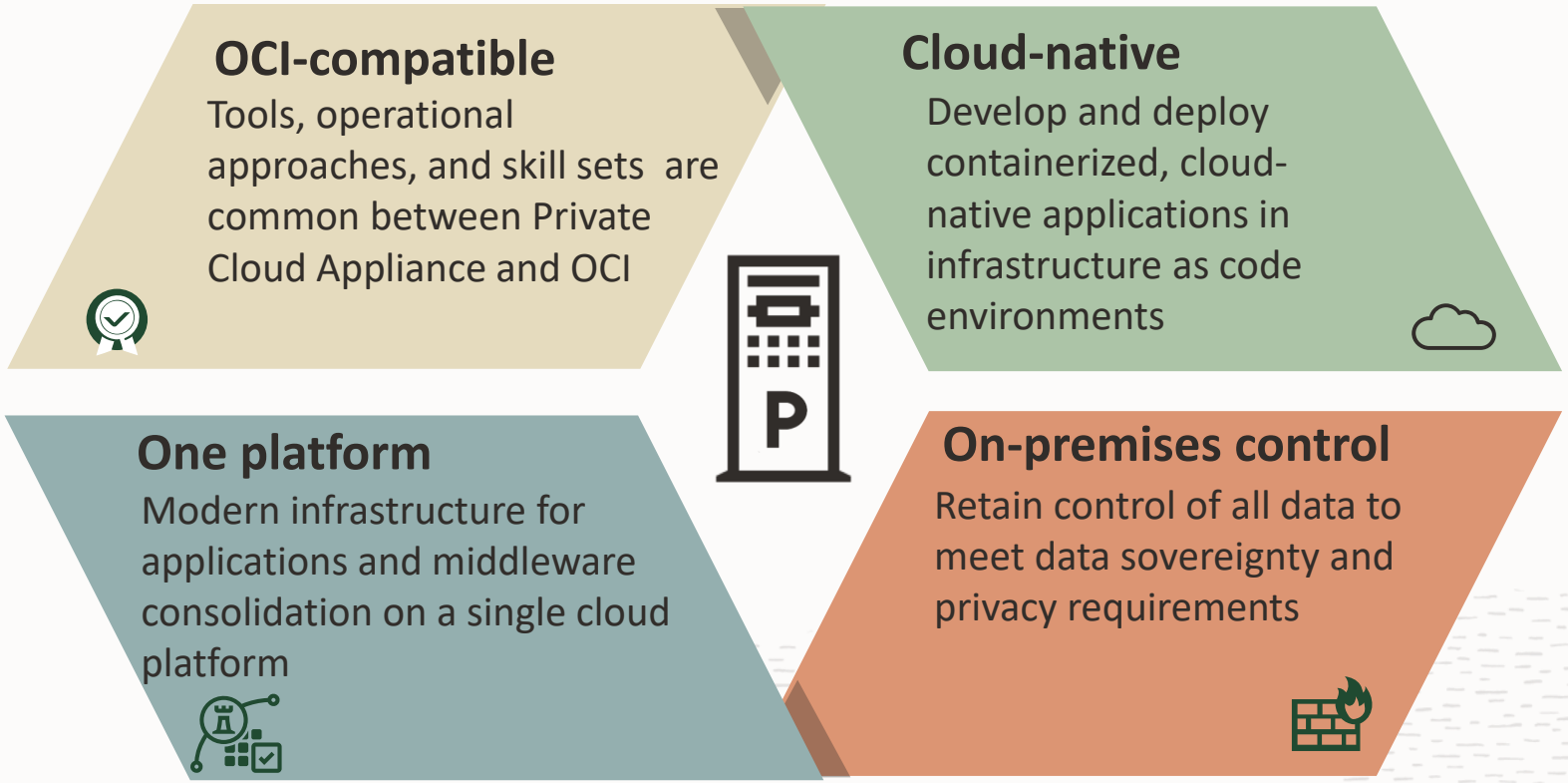
- Highly available: 3 isolated fault domains and no single point of failure
- Lowest latency Exadata direct connect
- Integrated disaster recovery

### Reduce TCO by over 40%

- Trusted Partitions optimize software license costs
- Eliminates infrastructure “tax” by including cloud administration and management, Oracle Linux, Oracle Solaris, Cloud Native Stack, etc.
- Up to 8 tenancies securely consolidate infrastructure for multiple organizations

# Oracle Private Cloud Appliance X9

Delivers consistent development and deployment for public and private cloud



# Oracle Cloud Compatible Infrastructure on Premises

Engineered for Mission Critical Private Cloud

## Image portability to OCI
## OCI compatible APIs

## Tools and Services

CI/CD
SDK

## Business Continuity

Fault Domains
Disaster Recovery

## Monitoring and Management

Grafana, Prometheus


## Security and Governance

Identity and Access
Policy
Tagging
Encryption

## Storage

Block
File
Object

## Network

Virtual Cloud Network
Network Services
Security Lists
Gateway Services
Datacenter Connectivity

## Compute

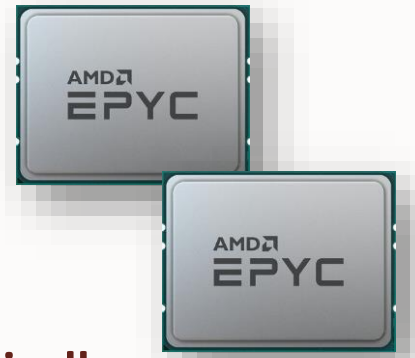
Virtual Machines

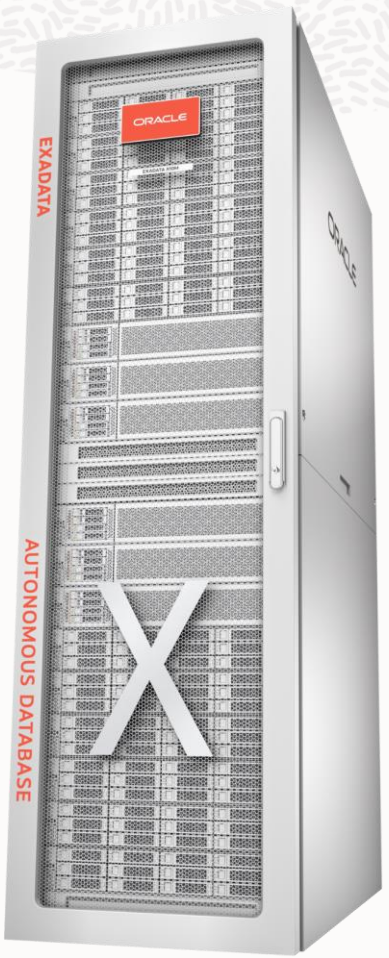
# Exadata Database Machine

# I’m Exadata X10M

SCAN ME

Featuring AMD EPYC™ CPUs




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

Click Here

# Exadata runs everywhere

Identicality across deployments improves IT agility and reduces costs

| On-premises | Public Cloud | Hybrid Cloud | Multicloud |
|---|---|---|---|
|  |  |  |  |
| Exadata Database Machine | Exadata in Oracle Cloud Infrastructure (OCI) | Exadata Cloud@Customer | Exadata through Oracle Database Service for Azure |

**39% of Fortune Global 100 have adopted Exadata Cloud**

# Leading organizations in every industry rely on Exadata

**10** of the Top 10 Telecoms | **10** of the Top 10 Banks | **9** of the Top 10 Retailers

| | |
|---|---|
| **10** of top **10** | **Banking** |
| **10** of top **10** | **Telecommunications** |
| **10** of top **10** | **Food & Drug** |
| **9** of top **10** | **Automotive** |
| **9** of top **10** | **Healthcare** |
| **9** of top **10** | **Retail** |
| **8** of top **10** | **Technology** |
| **7** of top **10** | **Energy** |









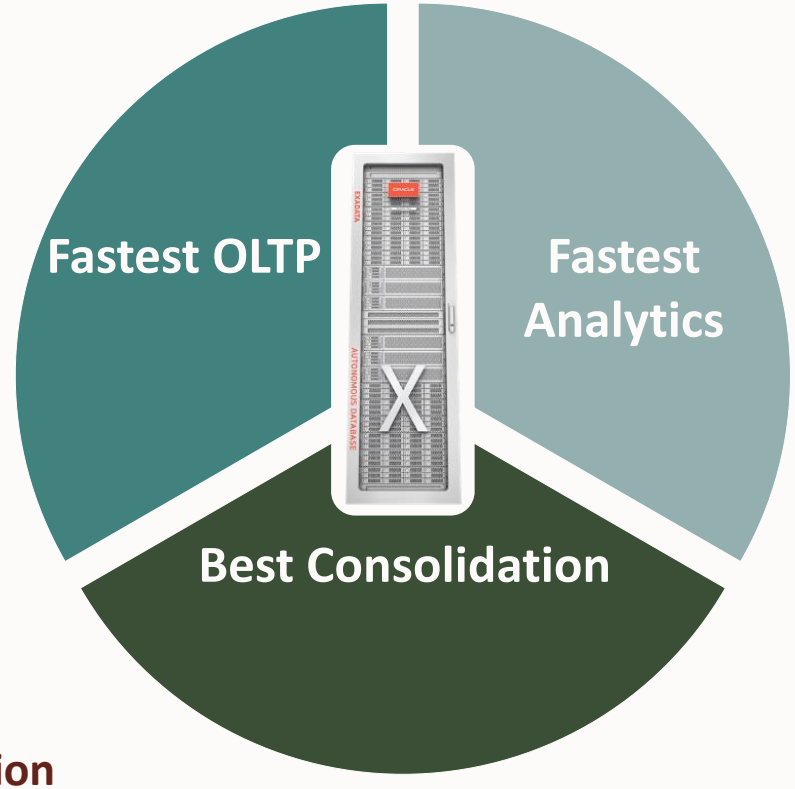
* Ranking based on 2022 Fortune Global 500

# Exadata's Superior Software Architecture Highlights

Smart system software enables highest performance for OLTP | Analytics | Consolidation workloads

## Fastest OLTP

- **Fastest OLTP I/O** with scale-out storage, RDMA to storage, and NVMe flash
- **Fastest scale-out** with unique RDMA algorithms for inter-node cluster coordination
- **Fastest recovery** from unplanned downtime and component failure




## Fastest Analytics

- **Unique Smart Scan** automatically offloads data intensive SQL operations to storage
- **Unique Smart Flash Cache** and **Storage Index** automatically accelerate database I/O
- **Unique Columnarization** automatically converts data to fast In-Memory Columnar format in flash

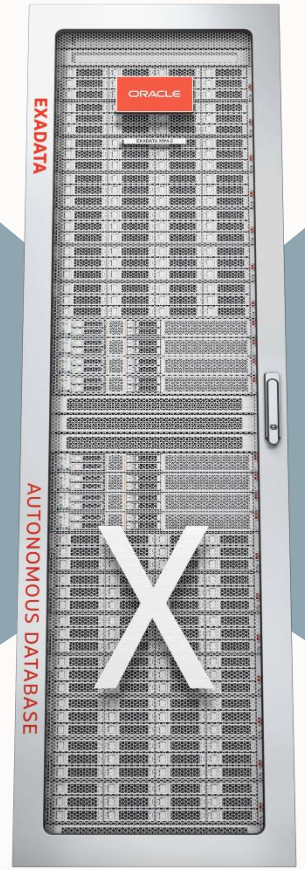
## Best Consolidation

- **Unique Prioritization** of latency sensitive or important workloads
- **Unique Workload Isolation** of multiple tenants or workloads

# Oracle Exadata Database and Platform Innovations

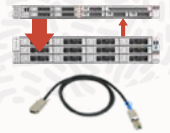
- Multitenant
- In-Memory DB
- Real Application Clusters
- Active Data Guard
- Partitioning
- Advanced Compression
- Advanced Security, Label Security, DB Vault
- Real Application Testing
- Advanced Analytics, Spatial and Graph
- Management Packs for Oracle Database

**All Oracle Database Innovations**




**All Exadata Innovations**

- Offload SQL to Storage
- RoCE Fabric




- PMEM Commit and Data Accelerators

- Smart Flash Cache


- Storage Indexes

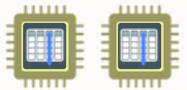
- Columnar Flash Cache

- Hybrid Columnar Compression


- I/O Resource Management


- Network Resource Management


- In-Memory Fault Tolerance



- Exafusion Direct-to-Wire Protocol

# Exadata X10M greatly improves OLTP performance

Performance improvements over Exadata X9M

Up to 3X

**Higher Transaction Throughput**

3X more cores per database server (192 cores)
Up to 9% faster per core performance

Up to 50%

**Higher Flash Write IOPS in Storage Servers**

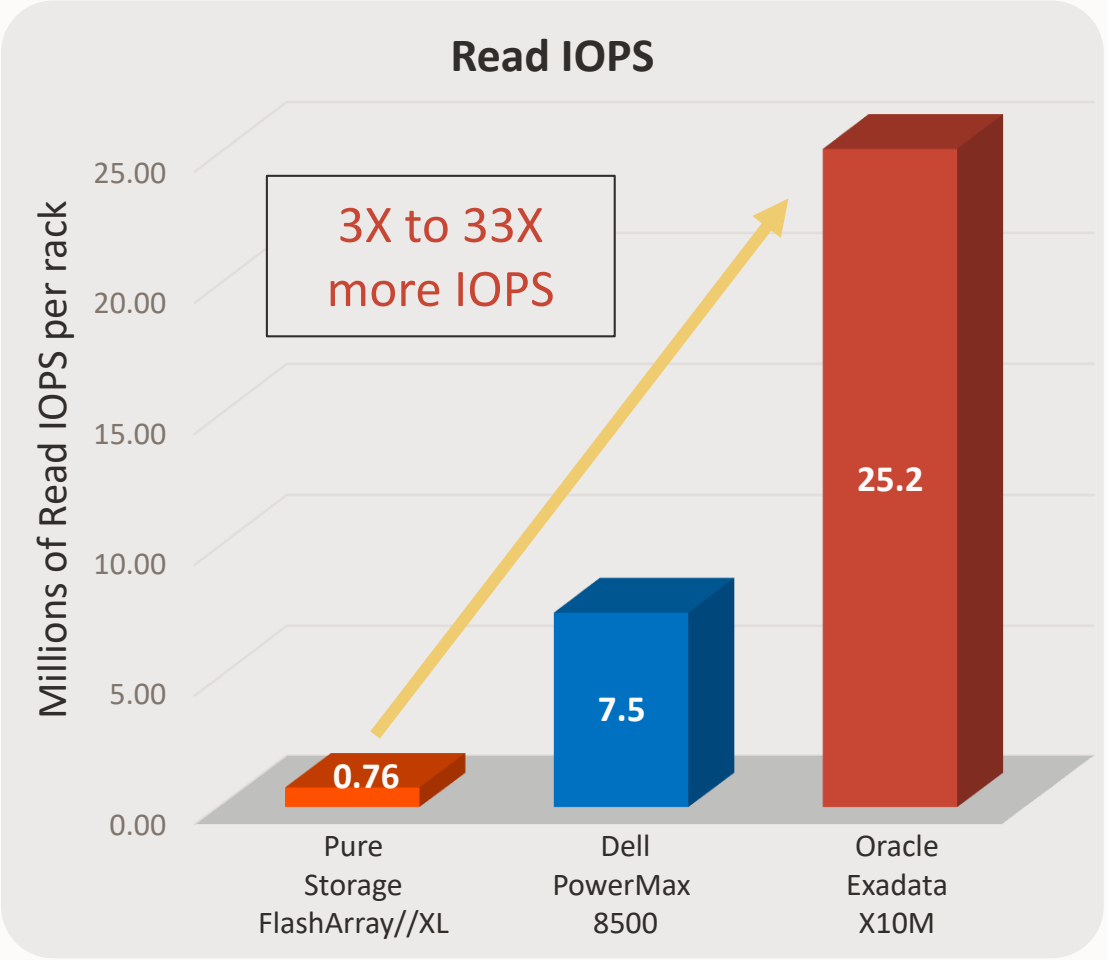
2X more cores
916K IOPS per storage server

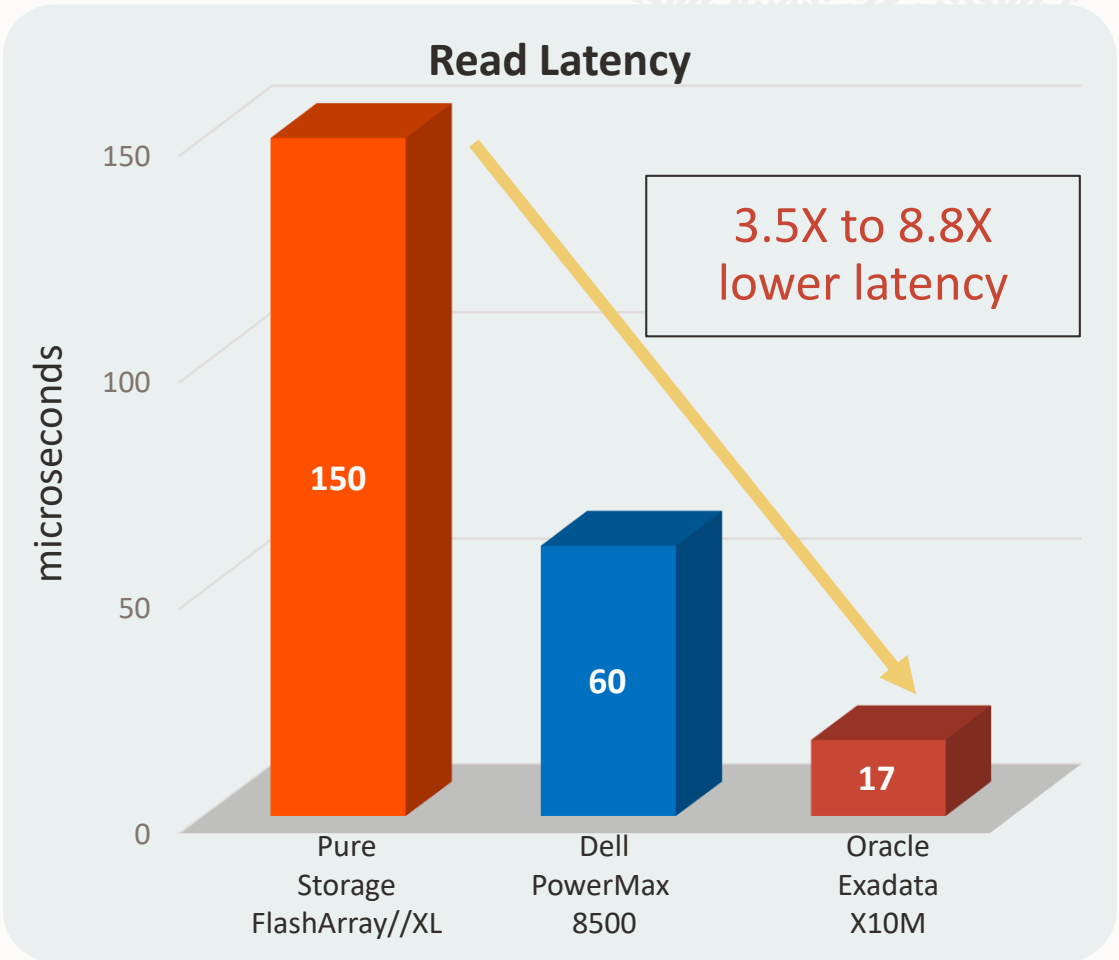
Up to 15%

**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 system, per-rack capabilities – PowerMax scales to 2 racks, **Exadata X10M scales to 14 racks**

# 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 2.6X

**Faster storage server queries**

2X 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 Extreme Flash Decryption**

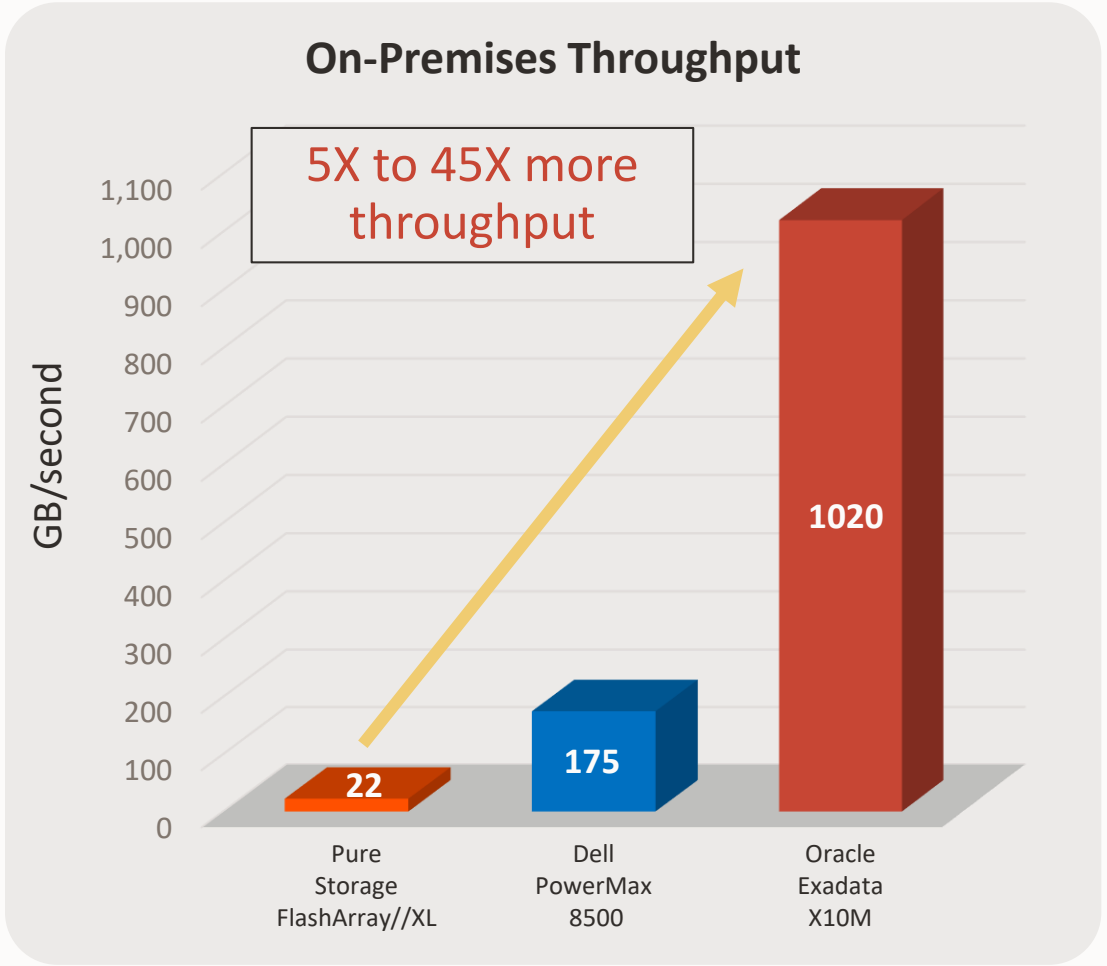
More cores enable flash scans on encrypted data to run at full flash bandwidth

Up to 25%

**More columnar cache capacity in flash**

New compression algorithms enable storing more data

# Dramatically higher analytics performance than traditional on-premises platform



# Exadata X10M greatly improves consolidation and capacity

Performance improvements over Exadata X9M

1.5X

**Higher Memory capacity**

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

2.4X

**More flash capacity in all-flash config**

New capacity-optimized flash drives
Up to 2 PB of raw all-flash storage
in one rack

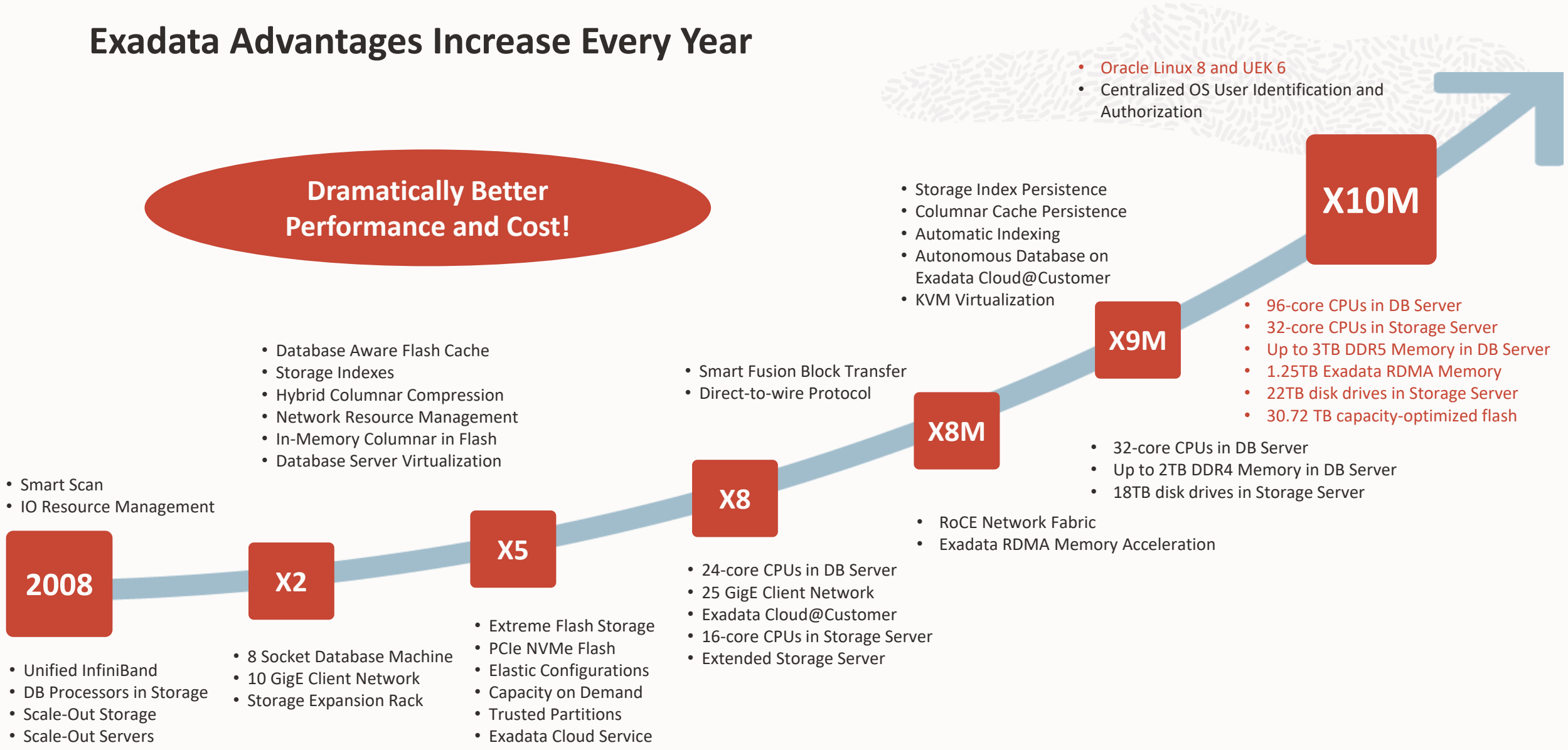
22%

**More disk storage capacity**

22 TB Disks replace 18 TB
Up to 4.2 PB of raw data storage in one rack

# Exadata Advantages Increase Every Year

**Dramatically Better Performance and Cost!**



# Extreme Performance and Consolidation = Extreme Value

Reduce costs with economies of scale

## Spend less by doing more

- Compared to previous generations, accomplish more on a same-size system
  - ✓ Enable more workloads
  - ✓ Support more users
  - ✓ Deploy more databases
  - ✓ Process more data
- Or, run the same workloads on a smaller system

## Spend less by administrating less

- Capacity-on-Demand with Trusted VMs enables rightsizing database spend to match workloads
- A complete, preconfigured, hardened, secured, tuned database platform
- Push-Button Database as a Cloud Service in Oracle Cloud Infrastructure or Cloud@Customer
- Migration to Exadata Cloud Infrastructure with no application or data model changes

# Thousands of critical deployments, on-premises and cloud

**Superior architecture for ALL workloads**

- **Petabyte warehouses**
- **Mission critical systems**
  - Financial trading
  - Process manufacturing
  - E-commerce
- **Packaged applications**
  - SAP, Oracle, Siebel, PSFT, …
- **Database consolidation**

# Oracle Cloud Infrastructure

Top 3 Reasons Versus AWS For Existing Oracle Customers

## Choose your cloud location, including on-premises

*All services available, even on-premises*

Not all workloads and data can move to the cloud, due to regulatory and data sovereignty requirements

**Oracle @Customer** options put Oracle-managed hardware on-premises with **all** Oracle Cloud services available

AWS Outposts puts AWS-managed hardware on-premises, but with a very limited set of AWS' services and requires an internet connection

## Lower, globally consistent pricing

*Predictable pricing in all public regions*

Fastest expansion of regions allows your application and data to be globally available

AWS services change cost dramatically, depending upon the region

OCI services have consistent pricing in **all global regions**, allowing customers to accurately plan their budgets

Oracle Support Rewards gives you money back

## Confidently migrate Oracle and bare metal workloads

*Reduce risk when migrating from on-premises*

**Oracle Cloud Lift** significantly reduces migration risk

OCI runs on-premises Oracle and bare metal workloads **as-is**, reducing testing and migration timelines

Supports **your cloud strategy**: rehosting, re-platforming, refactoring, and replacing

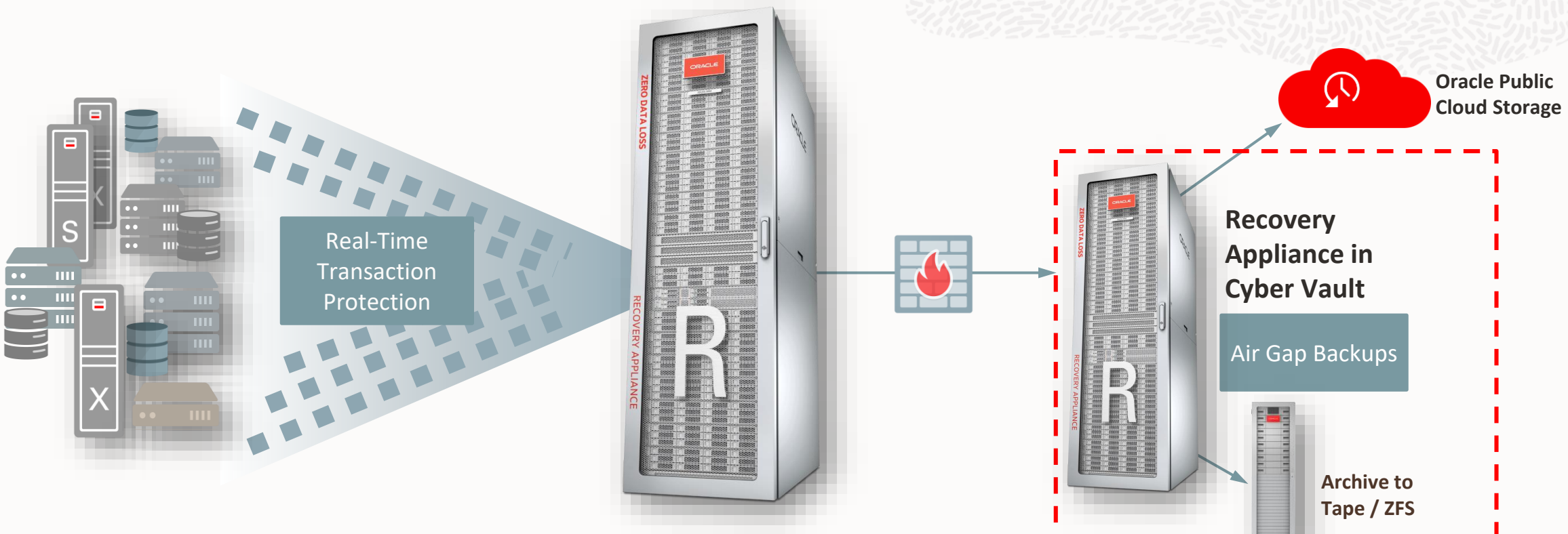
Unique features only available on OCI such as **RAC**, **ExaCS**, and **Autonomous Database**

# Zero Data Loss Recovery Appliance

# Oracle’s Zero Data Loss Recovery Appliance


- Up to 10X faster data recovery
- Real-time recovery status
- Recover to any point-in-time
- Never restore a bad backup again
- Millions in savings

# Built to Defend and Recover Databases from Ransomware Attacks




Oracle Database 12c-21c
**Any** Supported Platform

Hardened Compute &
Storage Architecture

Separation of Duty
User Model

# Recovery Appliance X9M Entry-Level to Multi-Rack Configurations

**Base Rack**

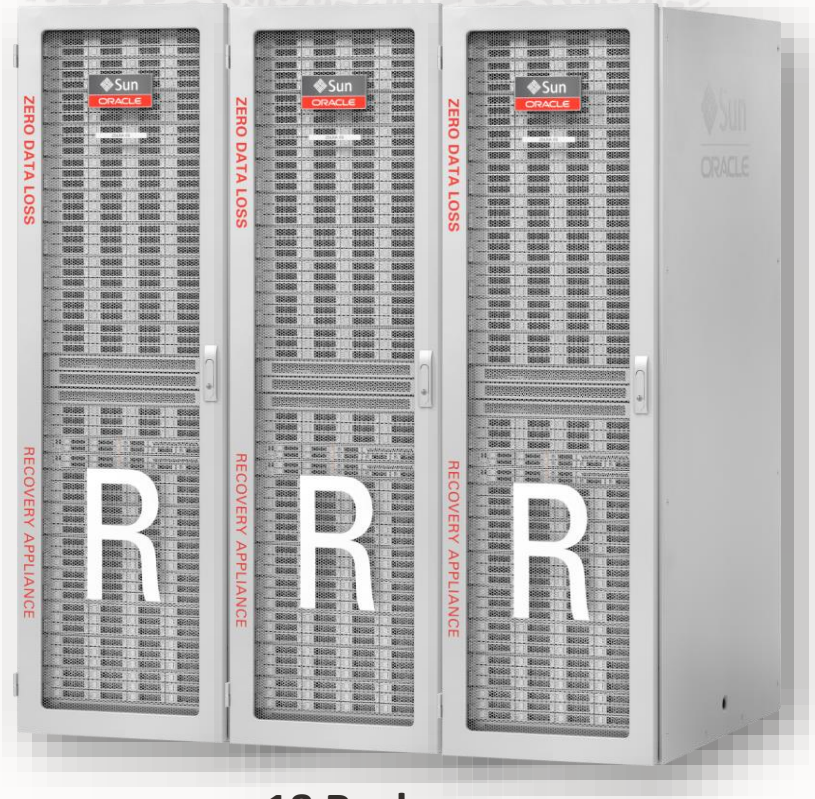
2 Compute Servers, 3 Storage Servers
207 TB Usable /15+ TB/Hr Restore

**Add more storage servers if necessary**

**Full Rack**

2 Compute Servers, 18 Storage Servers
1.26 PB Usable / 24+ TB/Hr Restore

**Add more racks if necessary**

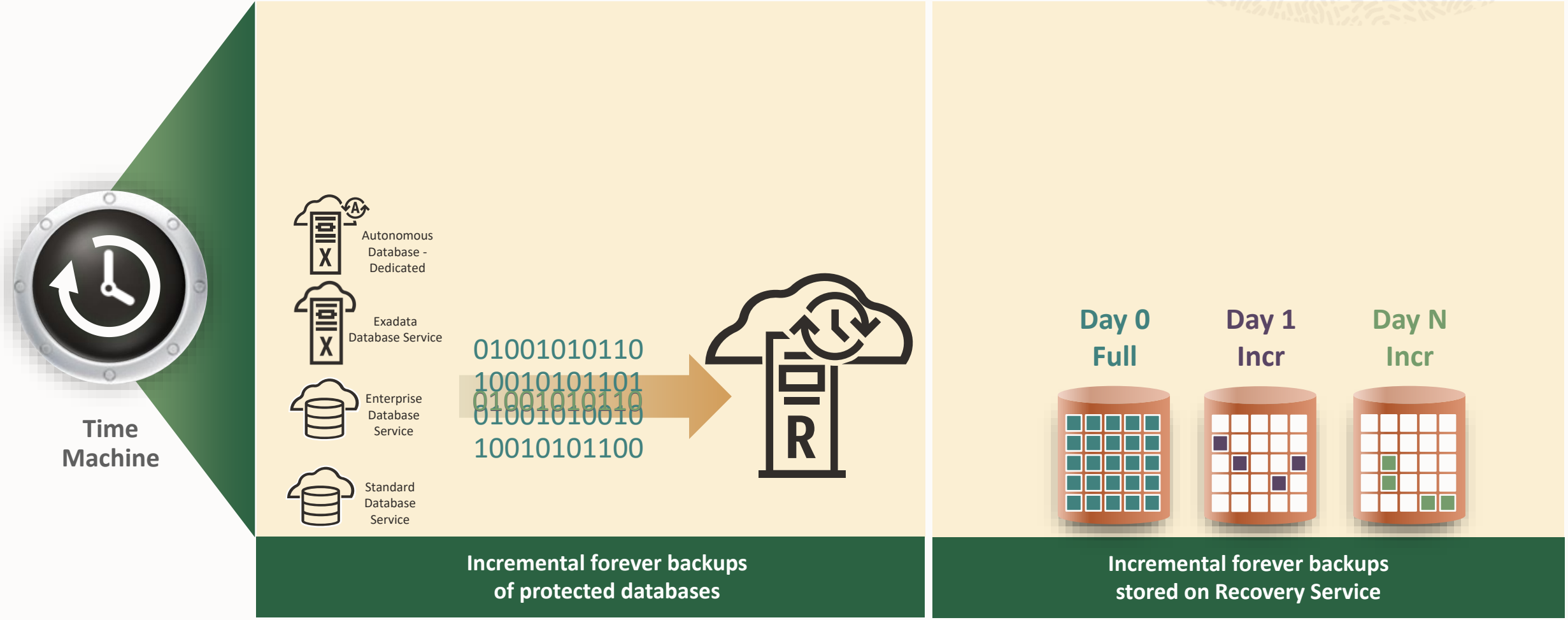



**18 Racks**

36 Compute Servers, 324 Storage Servers
22 PB Usable / 4+ PB/Hr Restore

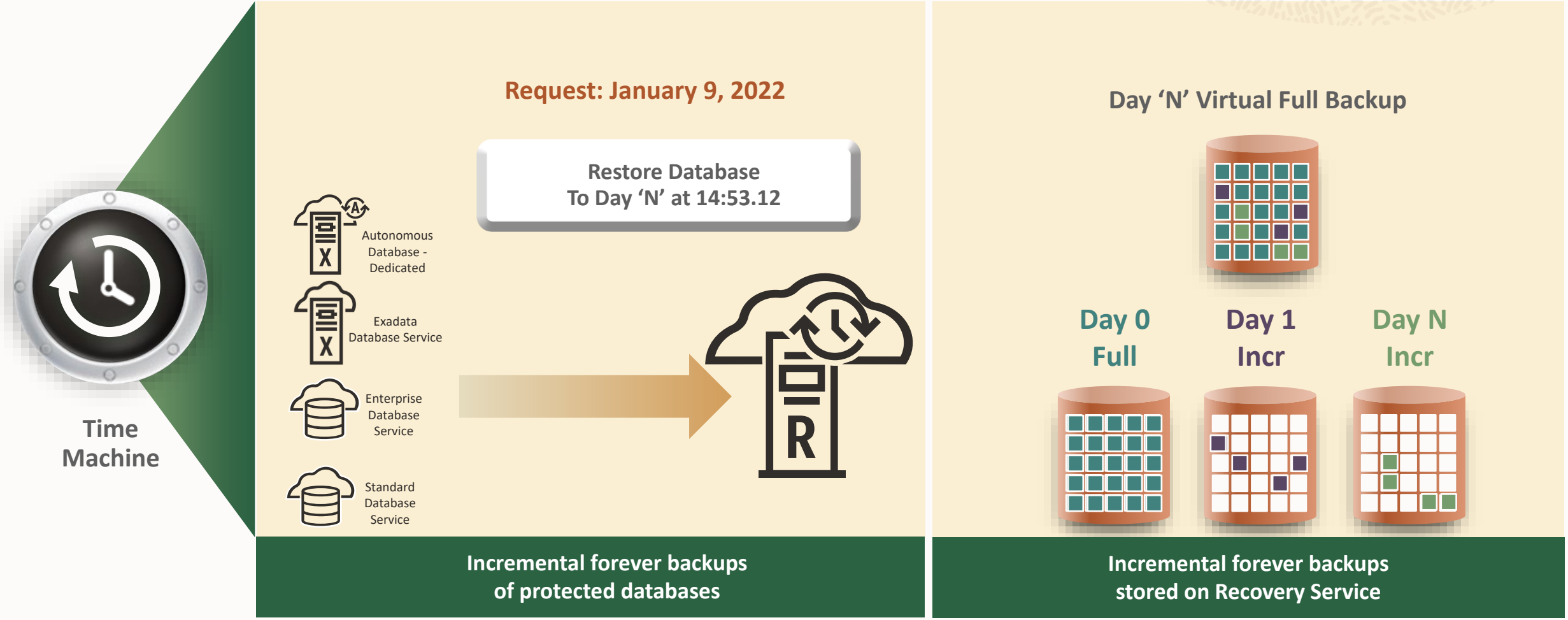
# Recovery Service eliminates weekly full backups

Incremental-forever backups reduce backup overhead on production database services



# Zero Data Loss recovery simplifies database restores

Creation of virtual full backups eliminates multiple incremental restore & apply cycles



# ZFS Storage Appliance

Optimized for Oracle workloads and Cloud Integration

# Oracle ZFS Storage Appliance

Unified Storage for modern IT and easy operation

SCAN ME

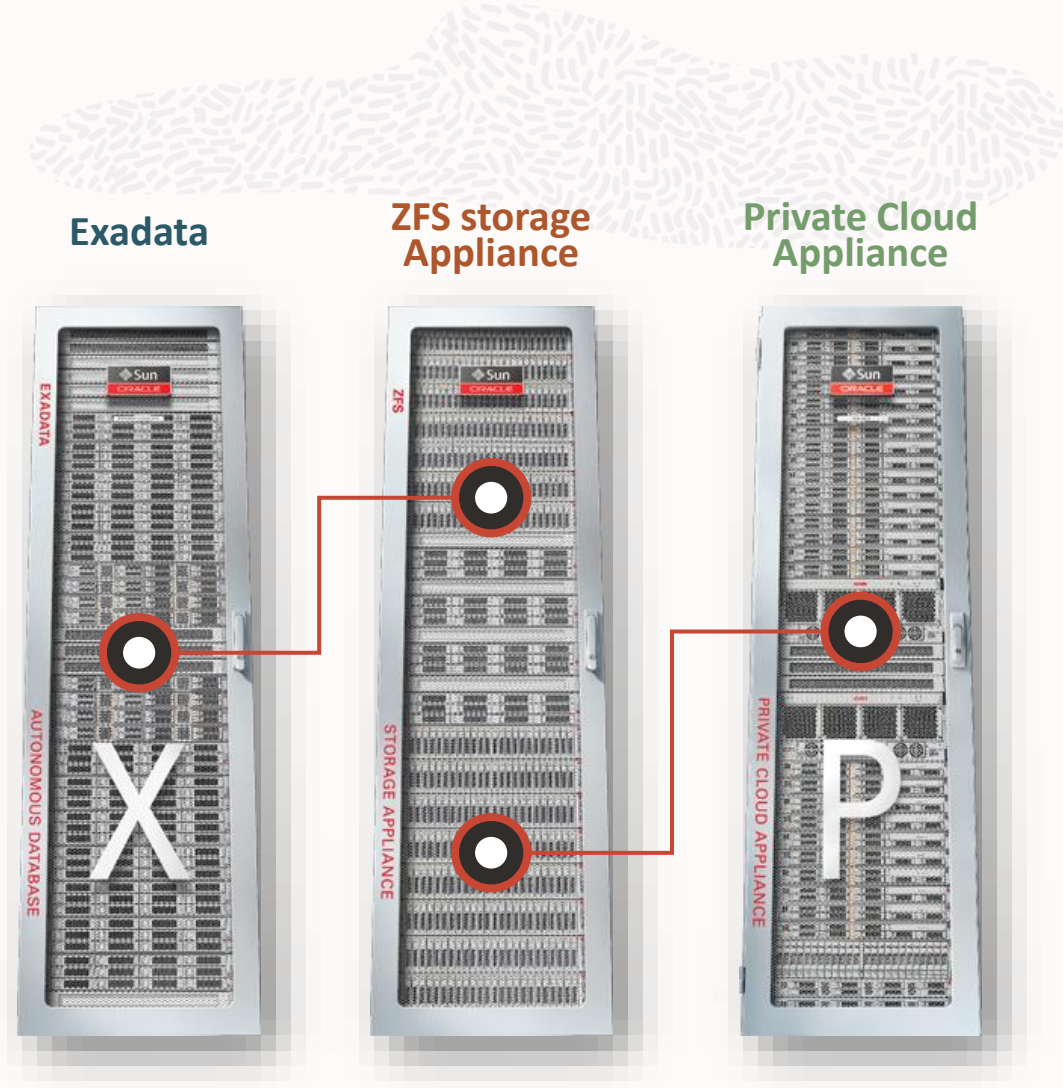
- Delivers higher performance and consolidation at a lower cost
- Optimizes Oracle Database storage with unique features and automation
- Tight Oracle Engineered Systems integration
- Extensive data integrity and security optimizations
- Accelerates backup and recovery for Oracle Database and all other sources
- Replicates backups to Oracle Cloud


Click Here

# Tight Integration with Oracle Cloud Systems

Oracle Exadata, ZFS Storage  and PCA can work together!

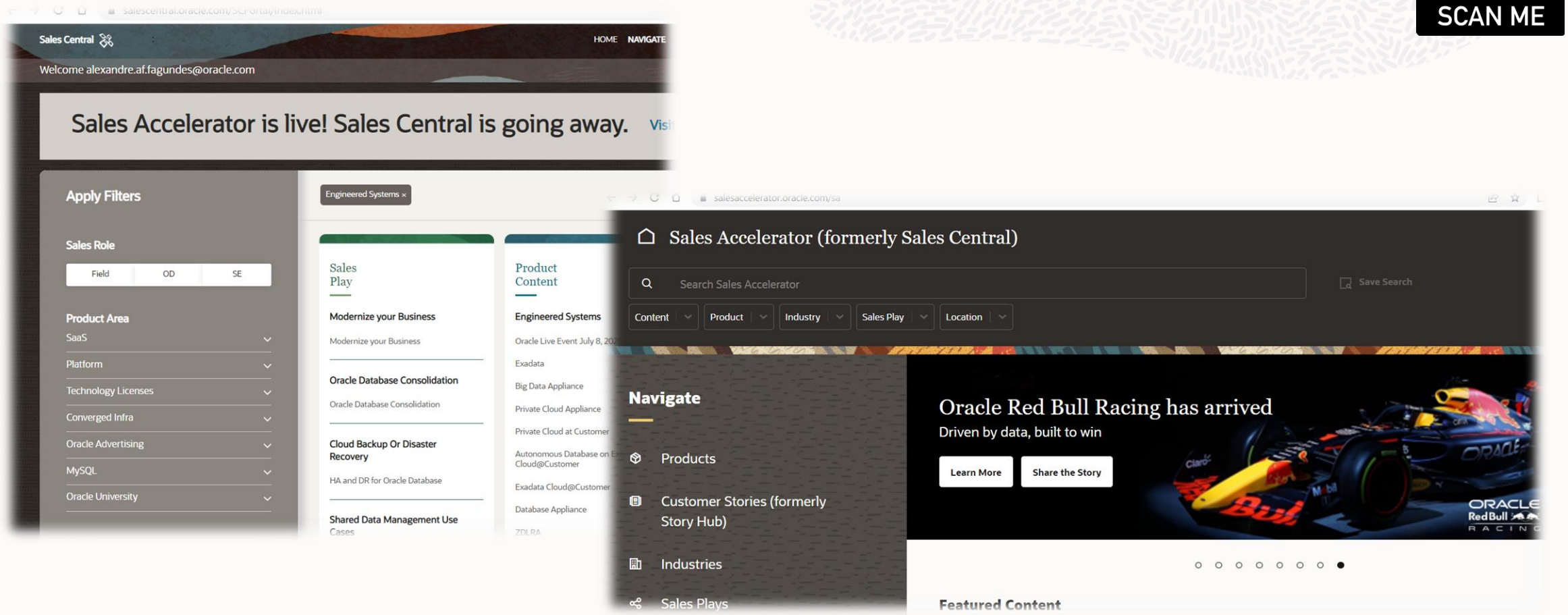
- High-performance 100Gb/second Ethernet for data access and protection
- Database IO performance and efficiency optimizations
- End-to-end management with Oracle Enterprise Manager
- Production storage integrated with Oracle Private Cloud Appliance
- Shared storage expansion for Oracle Database Appliance



# Oracle Resources

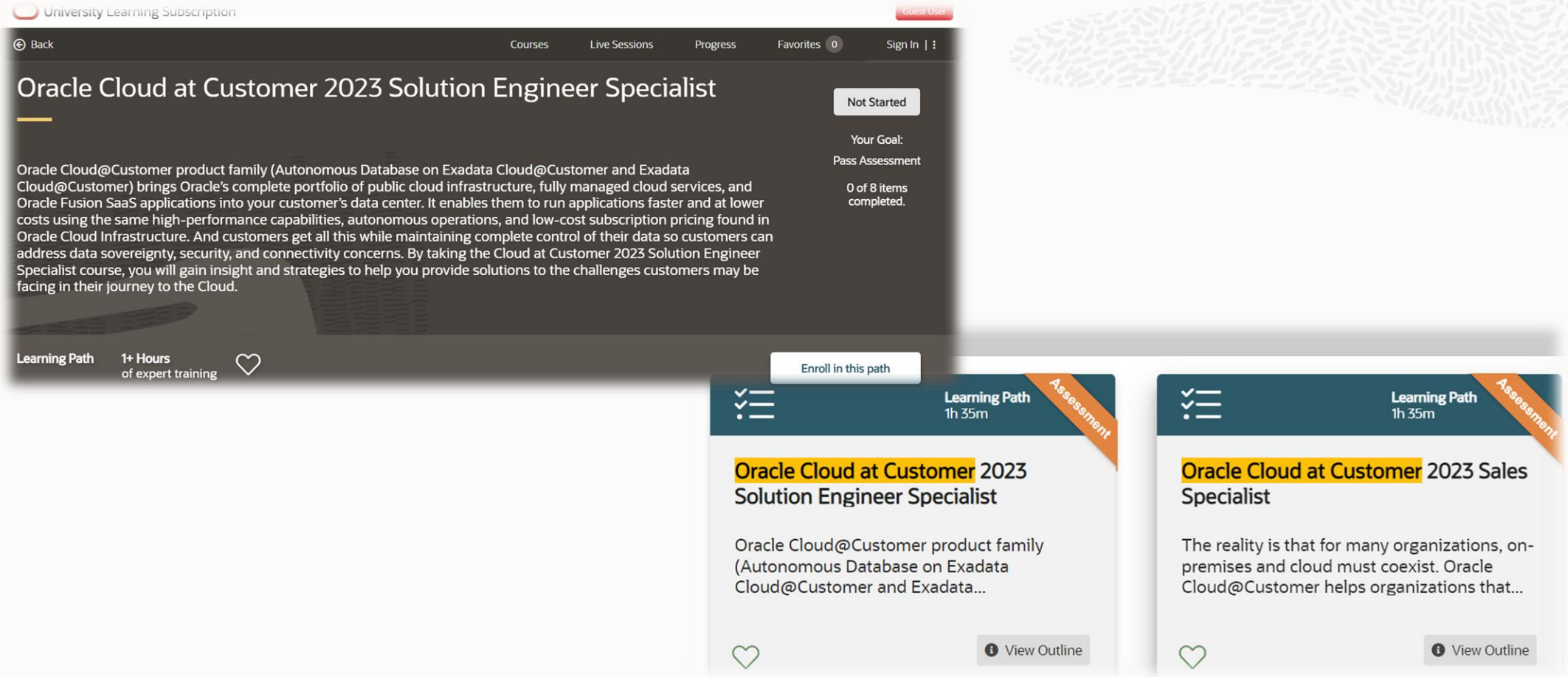
# Nice to meet you! I'm Sales Accelerator…

SCAN ME




Click Here

# 2023 Cloud at Customer Content




https://learn.oracle.com/ols/home/89350
https://learn.oracle.com/ols/learning-path/oracle-cloud-at-customer-2023-sales-specialist/89350/111199
https://learn.oracle.com/ols/learning-path/oracle-cloud-at-customer-2023-solution-engineer-specialist/89350/111250

# Sell Expertise | Oracle Exadata Database Machine

SCAN ME


**Expertise Qualifiers**

| | |
|---|---|
| Sales Specialists* | **1 Individual Accredited as:** Oracle Exadata On-Premises 2022 Sales Specialist |
| Solutions Engineers* | **1 Individual Accredited as:** Oracle Exadata On-Premises 2022 Solutions Engineer Specialist |

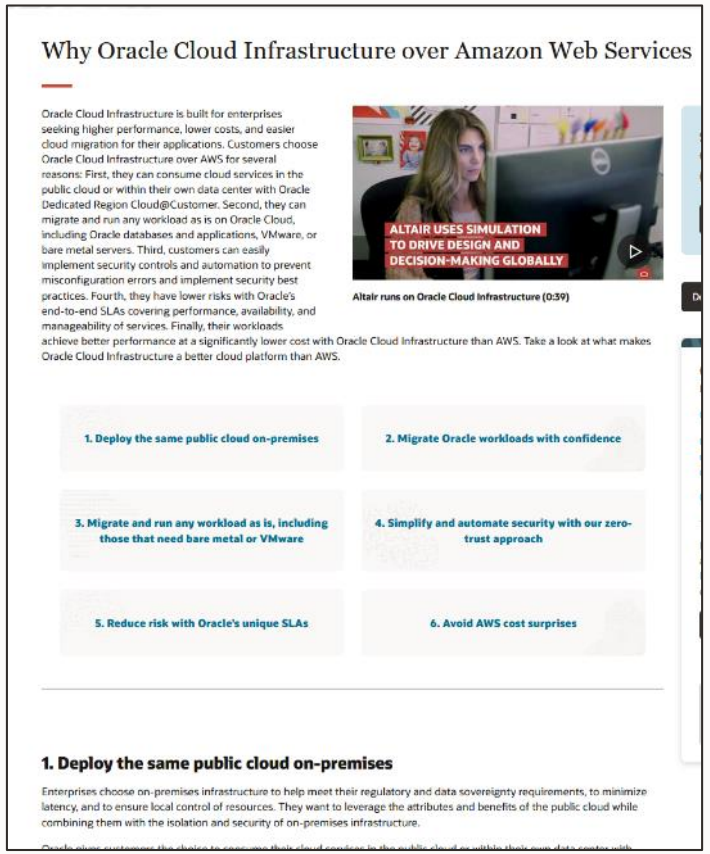
** Same Individuals can be both a Sales Specialist and Solution Engineer*

Click Here

# Public Resources

Available on Oracle.com

## OCI vs AWS



Why Oracle Cloud Infrastructure over Amazon Web Services

Oracle Cloud Infrastructure is built for enterprises seeking higher performance, lower costs, and easier cloud migration for their applications. Customers choose Oracle Cloud Infrastructure over AWS for several reasons: First, they can consume cloud services in the public cloud or within their own data center with Oracle Dedicated Region Cloud@Customer. Second, they can migrate and run any workload as is on Oracle Cloud, including Oracle databases and applications, VMware, or bare metal servers. Third, customers can easily implement security controls and automation to prevent misconfiguration errors and implement security best practices. Fourth, they have lower risks with Oracle's end-to-end SLAs covering performance, availability, and manageability of services. Finally, their workloads achieve better performance at a significantly lower cost with Oracle Cloud Infrastructure than AWS. Take a look at what makes Oracle Cloud Infrastructure a better cloud platform than AWS.



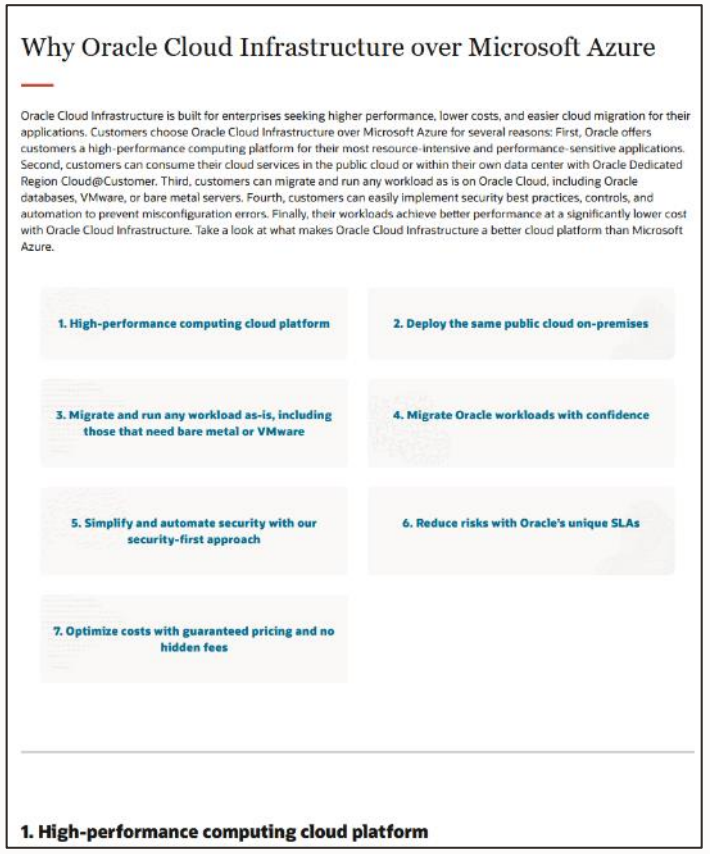
Altair runs on Oracle Cloud Infrastructure (0:39)

1. Deploy the same public cloud on-premises
2. Migrate Oracle workloads with confidence
3. Migrate and run any workload as is, including those that need bare metal or VMware
4. Simplify and automate security with our zero-trust approach
5. Reduce risk with Oracle's unique SLAs
6. Avoid AWS cost surprises

**1. Deploy the same public cloud on-premises**

Enterprises choose on-premises infrastructure to help meet their regulatory and data sovereignty requirements, to minimize latency, and to ensure local control of resources. They want to leverage the attributes and benefits of the public cloud while combining them with the isolation and security of on-premises infrastructure.

## OCI vs Azure



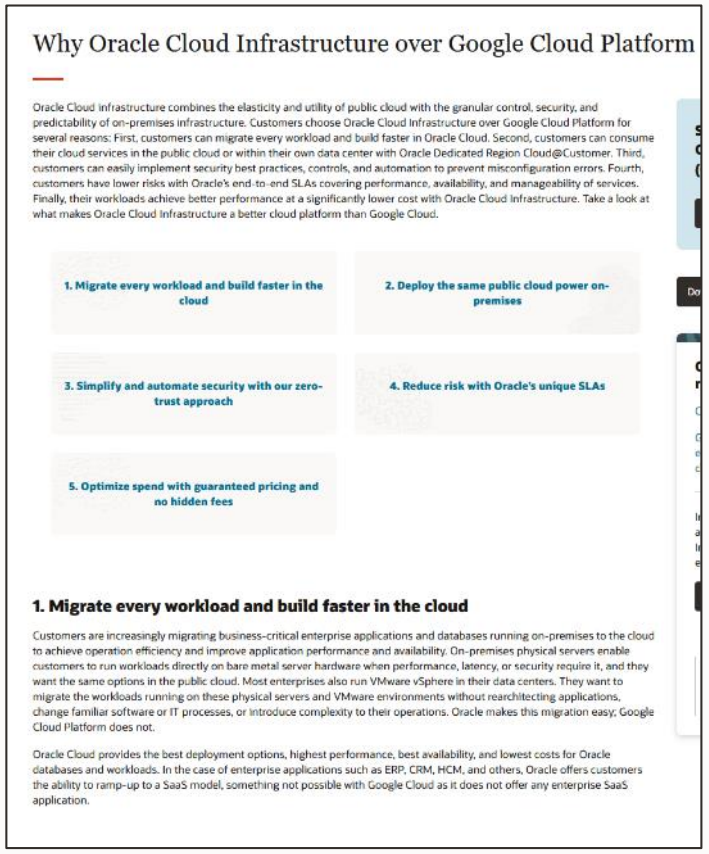
Why Oracle Cloud Infrastructure over Microsoft Azure

Oracle Cloud Infrastructure is built for enterprises seeking higher performance, lower costs, and easier cloud migration for their applications. Customers choose Oracle Cloud Infrastructure over Microsoft Azure for several reasons: First, Oracle offers customers a high-performance computing platform for their most resource-intensive and performance-sensitive applications. Second, customers can consume their cloud services in the public cloud or within their own data center with Oracle Dedicated Region Cloud@Customer. Third, customers can migrate and run any workload as is on Oracle Cloud, including Oracle databases, VMware, or bare metal servers. Fourth, customers can easily implement security best practices, controls, and automation to prevent misconfiguration errors. Finally, their workloads achieve better performance at a significantly lower cost with Oracle Cloud Infrastructure. Take a look at what makes Oracle Cloud Infrastructure a better cloud platform than Microsoft Azure.

1. High-performance computing cloud platform
2. Deploy the same public cloud on-premises
3. Migrate and run any workload as-is, including those that need bare metal or VMware
4. Migrate Oracle workloads with confidence
5. Simplify and automate security with our security-first approach
6. Reduce risks with Oracle's unique SLAs
7. Optimize costs with guaranteed pricing and no hidden fees

**1. High-performance computing cloud platform**

## OCI vs Google Cloud



Why Oracle Cloud Infrastructure over Google Cloud Platform

Oracle Cloud infrastructure combines the elasticity and utility of public cloud with the granular control, security, and predictability of on-premises infrastructure. Customers choose Oracle Cloud Infrastructure over Google Cloud Platform for several reasons: First, customers can migrate every workload and build faster in Oracle Cloud. Second, customers can consume their cloud services in the public cloud or within their own data center with Oracle Dedicated Region Cloud@Customer. Third, customers can easily implement security best practices, controls, and automation to prevent misconfiguration errors. Fourth, customers have lower risks with Oracle's end-to-end SLAs covering performance, availability, and manageability of services. Finally, their workloads achieve better performance at a significantly lower cost with Oracle Cloud Infrastructure. Take a look at what makes Oracle Cloud Infrastructure a better cloud platform than Google Cloud.

1. Migrate every workload and build faster in the cloud
2. Deploy the same public cloud power on-premises
3. Simplify and automate security with our zero-trust approach
4. Reduce risk with Oracle's unique SLAs
5. Optimize spend with guaranteed pricing and no hidden fees

**1. Migrate every workload and build faster in the cloud**

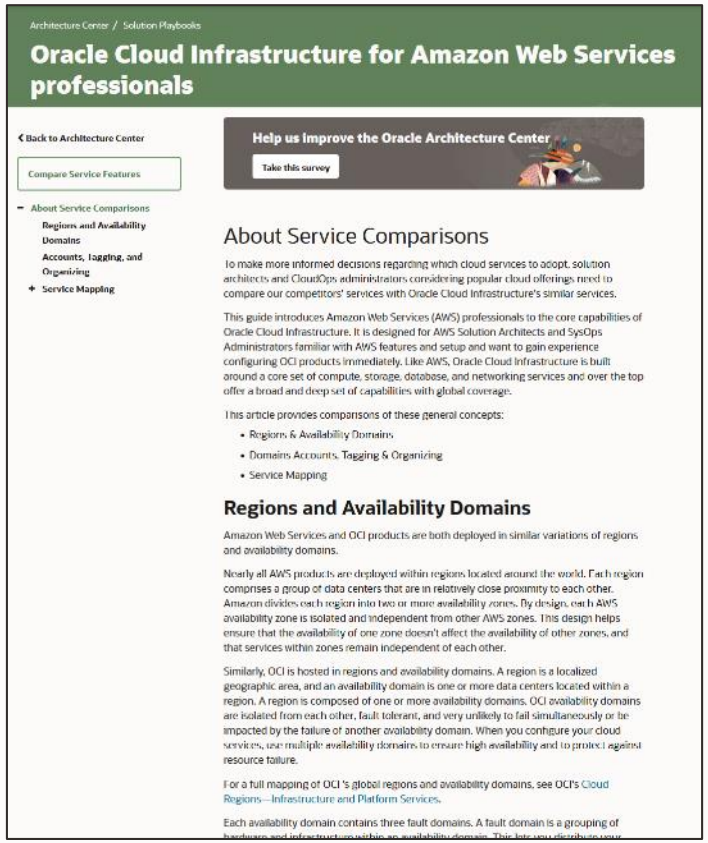
Customers are increasingly migrating business-critical enterprise applications and databases running on-premises to the cloud to achieve operation efficiency and improve application performance and availability. On-premises physical servers enable customers to run workloads directly on bare metal server hardware when performance, latency, or security require it, and they want the same options in the public cloud. Most enterprises also run VMware vSphere in their data centers. They want to migrate the workloads running on these physical servers and VMware environments without rearchitecting applications, change familiar software or IT processes, or introduce complexity to their operations. Oracle makes this migration easy; Google Cloud Platform does not.

Oracle Cloud provides the best deployment options, highest performance, best availability, and lowest costs for Oracle databases and workloads. In the case of enterprise applications such as ERP, CRM, HCM, and others, Oracle offers customers the ability to ramp-up to a SaaS model, something not possible with Google Cloud as it does not offer any enterprise SaaS application.

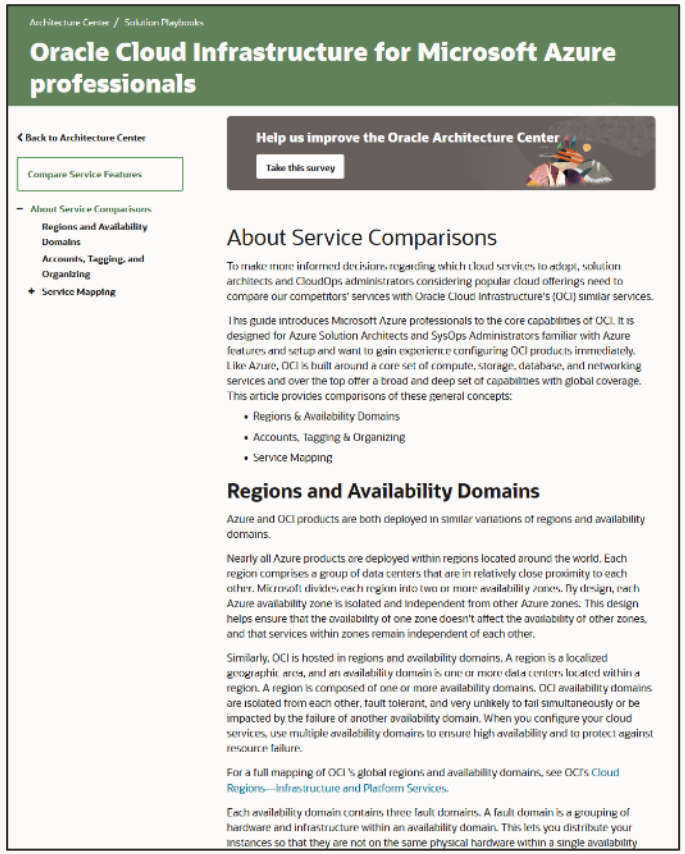
# Public Resources

Available on Oracle.com

## OCI for AWS Professionals




## OCI for Azure Professionals



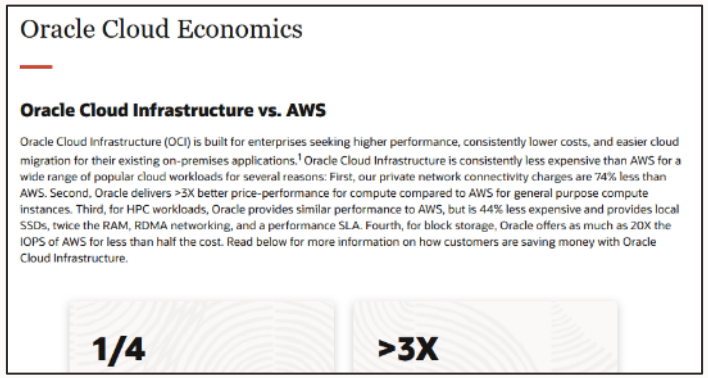

## OCI for Google Professionals

TBD

# Public Resources

Available on Oracle.com

## Pricing Comparison



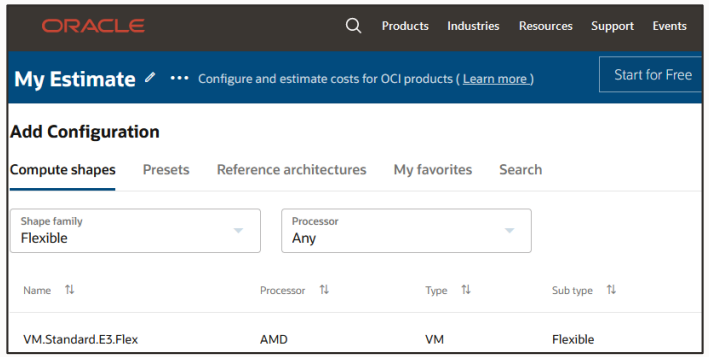
Oracle Cloud Economics

**Oracle Cloud Infrastructure vs. AWS**

Oracle Cloud Infrastructure (OCI) is built for enterprises seeking higher performance, consistently lower costs, and easier cloud migration for their existing on-premises applications.[1] Oracle Cloud Infrastructure is consistently less expensive than AWS for a wide range of popular cloud workloads for several reasons: First, our private network connectivity charges are 74% less than AWS. Second, Oracle delivers >3X better price-performance for compute compared to AWS for general purpose compute instances. Third, for HPC workloads, Oracle provides similar performance to AWS, but is 44% less expensive and provides local SSDs, twice the RAM, RDMA networking, and a performance SLA. Fourth, for block storage, Oracle offers as much as 20X the IOPS of AWS for less than half the cost. Read below for more information on how customers are saving money with Oracle Cloud Infrastructure.

1/4 >3X

## Cost Estimator



ORACLE Products Industries Resources Support Events

My Estimate ··· Configure and estimate costs for OCI products ( Learn more ) Start for Free

Add Configuration

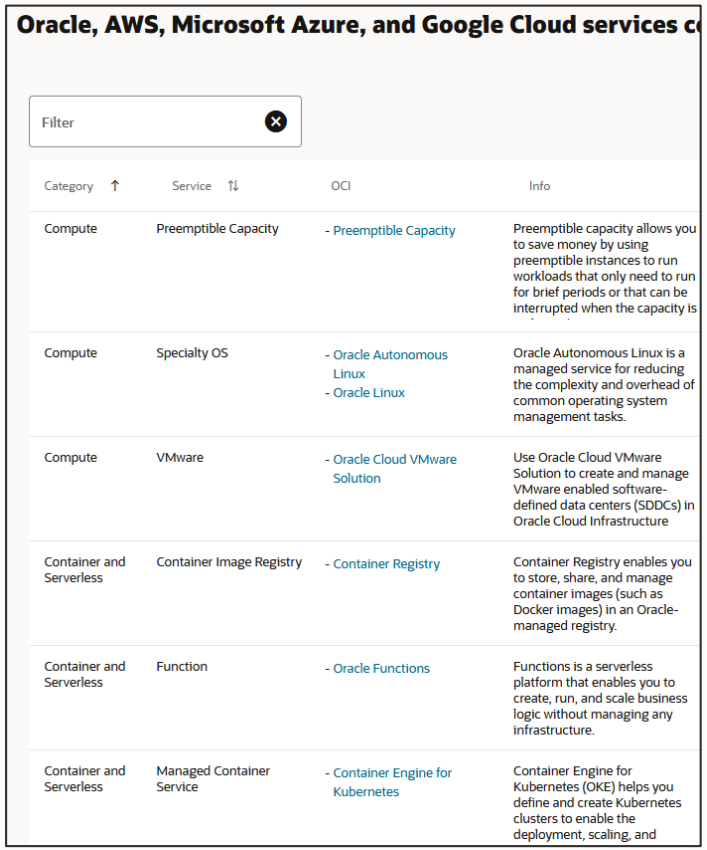
Compute shapes Presets Reference architectures My favorites Search

Shape family: Flexible

Processor: Any

| Name | Processor | Type | Sub type |
|---|---|---|---|
| VM.Standard.E3.Flex | AMD | VM | Flexible |

## OCI Service Comparison

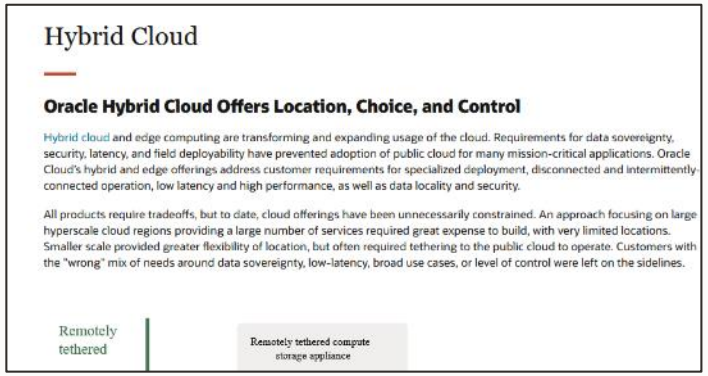


**Oracle, AWS, Microsoft Azure, and Google Cloud services c**

Filter

| Category | Service | OCI | Info |
|---|---|---|---|
| Compute | Preemptible Capacity | - Preemptible Capacity | Preemptible capacity allows you to save money by using preemptible instances to run workloads that only need to run for brief periods or that can be interrupted when the capacity is |
| Compute | Specialty OS | - Oracle Autonomous Linux<br>- Oracle Linux | Oracle Autonomous Linux is a managed service for reducing the complexity and overhead of common operating system management tasks. |
| Compute | VMware | - Oracle Cloud VMware Solution | Use Oracle Cloud VMware Solution to create and manage VMware enabled software-defined data centers (SDDCs) in Oracle Cloud Infrastructure |
| Container and Serverless | Container Image Registry | - Container Registry | Container Registry enables you to store, share, and manage container images (such as Docker images) in an Oracle-managed registry. |
| Container and Serverless | Function | - Oracle Functions | Functions is a serverless platform that enables you to create, run, and scale business logic without managing any infrastructure. |
| Container and Serverless | Managed Container Service | - Container Engine for Kubernetes | Container Engine for Kubernetes (OKE) helps you define and create Kubernetes clusters to enable the deployment, scaling, and |

## Complete Hybrid Cloud



Hybrid Cloud

**Oracle Hybrid Cloud Offers Location, Choice, and Control**

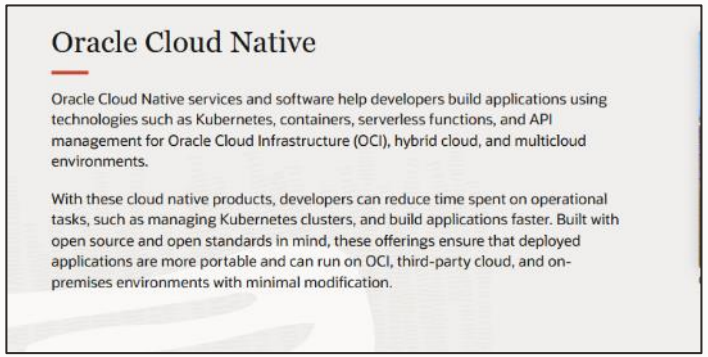
Hybrid cloud and edge computing are transforming and expanding usage of the cloud. Requirements for data sovereignty, security, latency, and field deployability have prevented adoption of public cloud for many mission-critical applications. Oracle Cloud's hybrid and edge offerings address customer requirements for specialized deployment, disconnected and intermittently-connected operation, low latency and high performance, as well as data locality and security.

All products require tradeoffs, but to date, cloud offerings have been unnecessarily constrained. An approach focusing on large hyperscale cloud regions providing a large number of services required great expense to build, with very limited locations. Smaller scale provided greater flexibility of location, but often required tethering to the public cloud to operate. Customers with the "wrong" mix of needs around data sovereignty, low-latency, broad use cases, or level of control were left on the sidelines.

Remotely tethered

Remotely tethered compute storage appliance

## OCI Is Cloud Native



Oracle Cloud Native

Oracle Cloud Native services and software help developers build applications using technologies such as Kubernetes, containers, serverless functions, and API management for Oracle Cloud Infrastructure (OCI), hybrid cloud, and multicloud environments.

With these cloud native products, developers can reduce time spent on operational tasks, such as managing Kubernetes clusters, and build applications faster. Built with open source and open standards in mind, these offerings ensure that deployed applications are more portable and can run on OCI, third-party cloud, and on-premises environments with minimal modification.

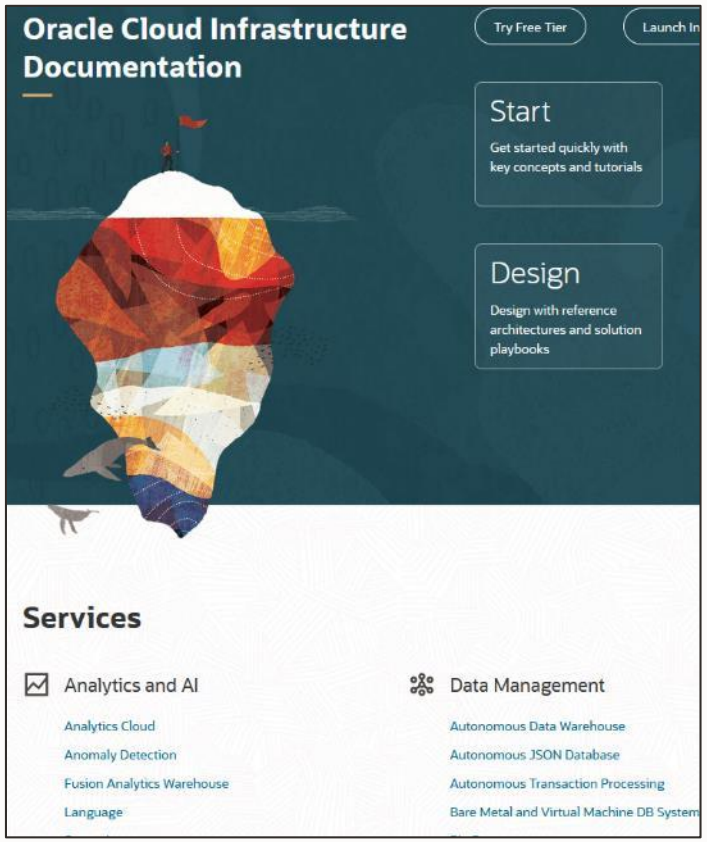
# Public Resources

Available on Oracle.com

## Architecture Templates

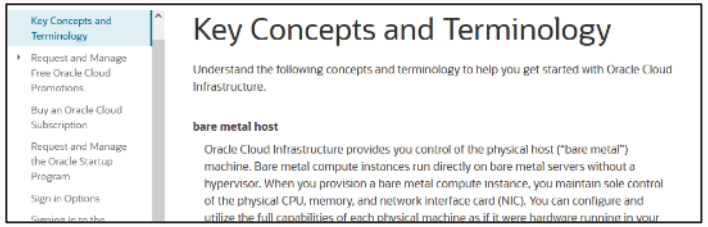
360+


## All OCI Services

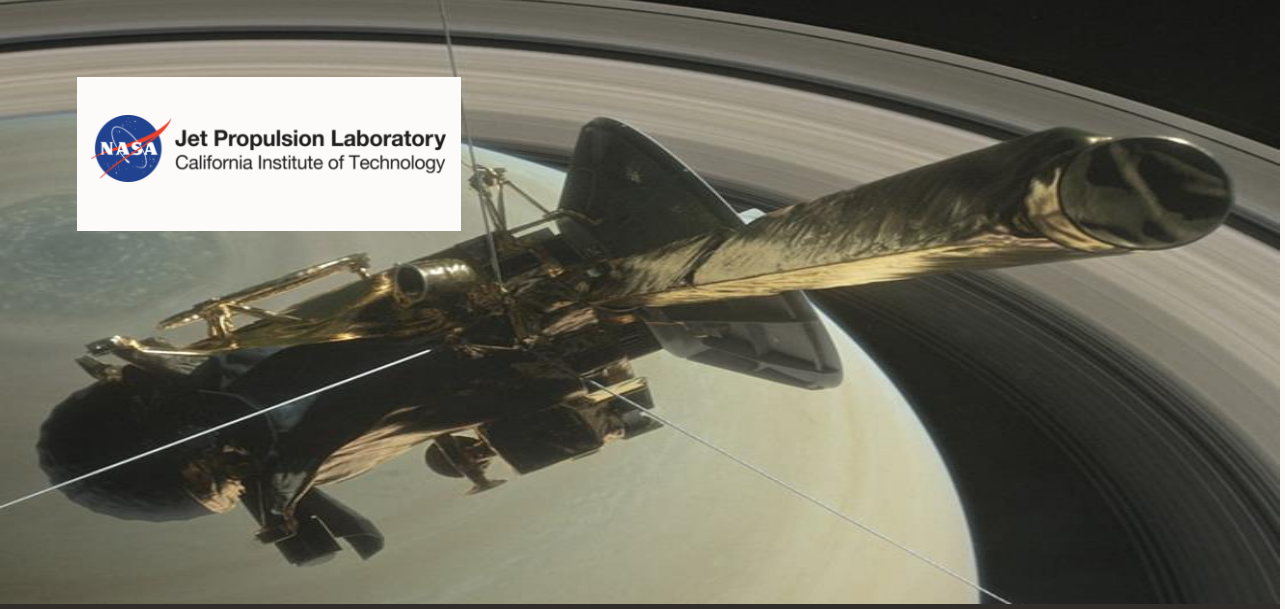



## Free! OCI Training


## Key OCI Concepts and Terms



# Successful Use Cases




# NASA's Deep Space Network powered by Oracle Private Cloud Appliance



## Business Challenge:

NASA's Jet Propulsion Laboratory (JPL) relies on its Deep Space Network (DSN) to provide uninterrupted communications with spacecraft exploring beyond Earth's orbit. NASA needed to upgrade from a legacy environment to a modernized infrastructure to receive data from space, then process it quickly and efficiently running a number of homegrown applications.

## Results:

- ✓ Crucial for monitoring and managing satellite assets for NASA
- ✓ Consolidated over 300 legacy servers to six Oracle Private Cloud Appliances
- ✓ Achieved zero downtime for critical operations.

## Products Used:

Oracle Private Cloud Appliance

Link to Forbes article:
https://www.forbes.com/sites/oracle/2017/09/27/how-nasa-captured-the-moment-of-cassinis-last-dive

Image courtesy of https://www.tamu.edu/current-students/index.html

MITSUBISHI ALUMINUM CO.,LTD.

# Accelerated processing and reporting ensures uninterrupted operations

"By adopting Oracle Database 12c's Multitenant option and consolidating six databases into Oracle Database Appliance, we gained a high-performing and reliable database platform to process sales and production data 40% faster, generate reports 30x faster, and ensure business continuity."

**Masayuki Gouya**

Department, Production Technology Division, Mitsubishi Aluminum Co. Ltd



## Business Challenge:

Mitsubishi Aluminum desired to increase daily manufacturing efficiency and reduce costs by integrating six databases into a single platform. In addition, they wanted to improve system response time and enhance business continuity to ensure uninterrupted manufacturing operations.

## Results:

- ✓ Processed aluminum sales and production data 40% faster by integrating multiple databases across all the plants into a single Oracle Database Appliance..
- ✓ Created sales and production reports 30x faster by using Oracle Database Appliance's solid-state drives.
- ✓ Ensured continuous manufacturing operations using Oracle's Maximum Availability Architecture to ensure high availability and eliminate production line outages.

## Products Used:

Oracle Database Appliance

Oracle Database

Image courtesy of https://www.tamu.edu/current-students/index.html

# Thank You ☺

**Questions / Feedback / Training Suggestions**

alexandre.af.fagundes@oracle.com

marcel.lamarca@oracle.com

**Ask for help ☺**


ORACLE