

ORACLE

Exadata Database Machine X10M

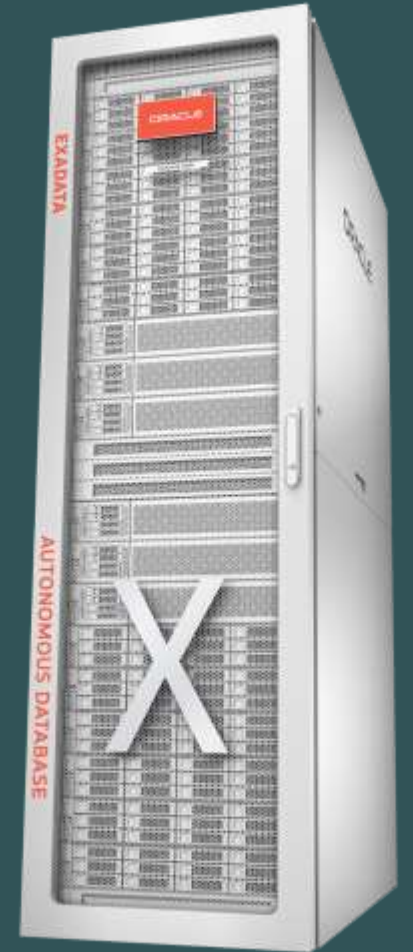
Understanding Product concepts, Price List, Support and Features

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Agenda

1

Exadata Database Machine X10M Basic concepts

2

Exadata Capacity on-demand and Trusted Partition

3

Oracle Database Machine Price List, Support and Features

4

Resources



Exadata runs everywhere

Identity across deployments improves IT agility and reduces costs

On-premises



Exadata Database
Machine

Public Cloud



Exadata in Oracle
Cloud
Infrastructure (OCI)

Hybrid Cloud



Exadata
Cloud@Customer

Multicloud



Exadata through
Oracle Database
Service for Azure



Exadata Database Machine Concepts



Exadata Unique Cloud-Scale Database-Optimized Architecture

Unique Next Generation RAC Scale-Out for Any Workload

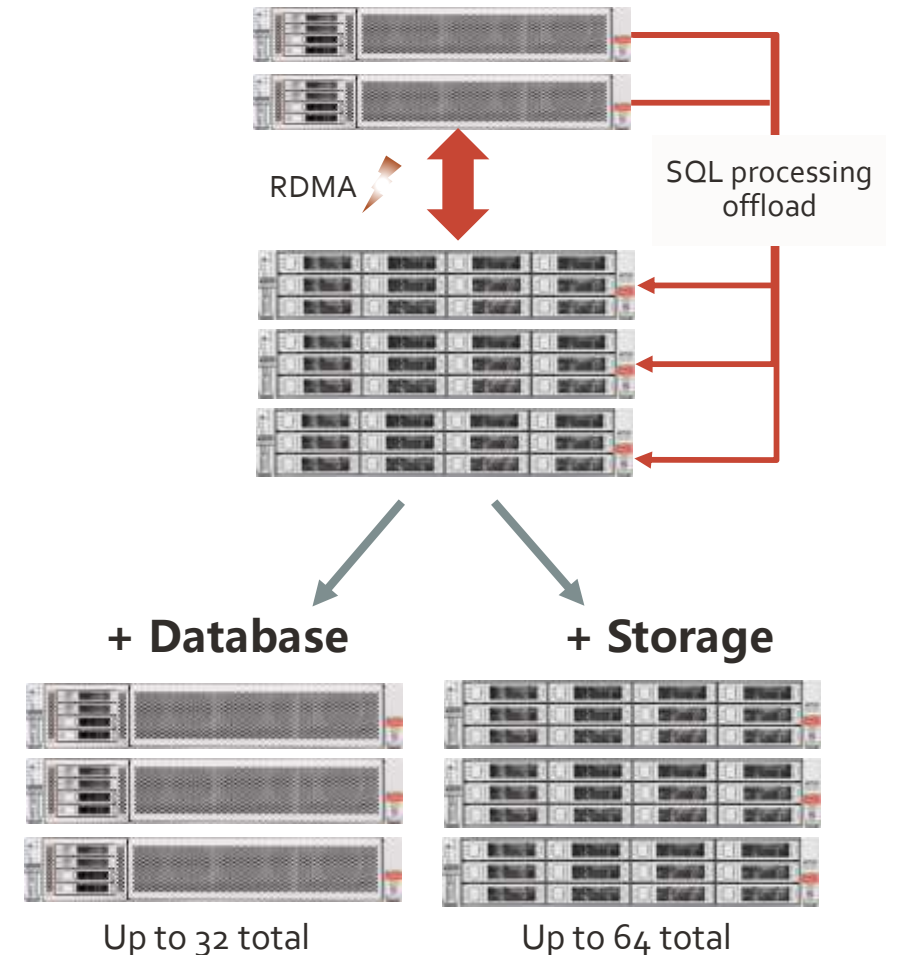
- Application-transparent database scalability & availability

Start small with minimum size High Availability configuration

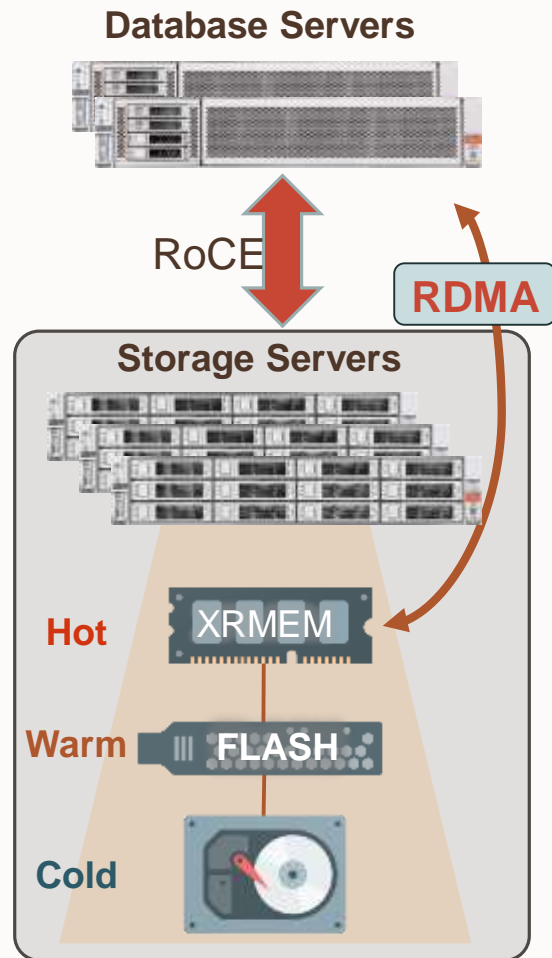
- 2 Compute Servers, 3 Storage Servers
- Dedicated to you – no noisy or malicious neighbors

Add individual Database or Storage servers as needed

Expansion happens **fully online**



Exadata architecture – scale out with intelligent storage



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 XMEM in Smart Storage

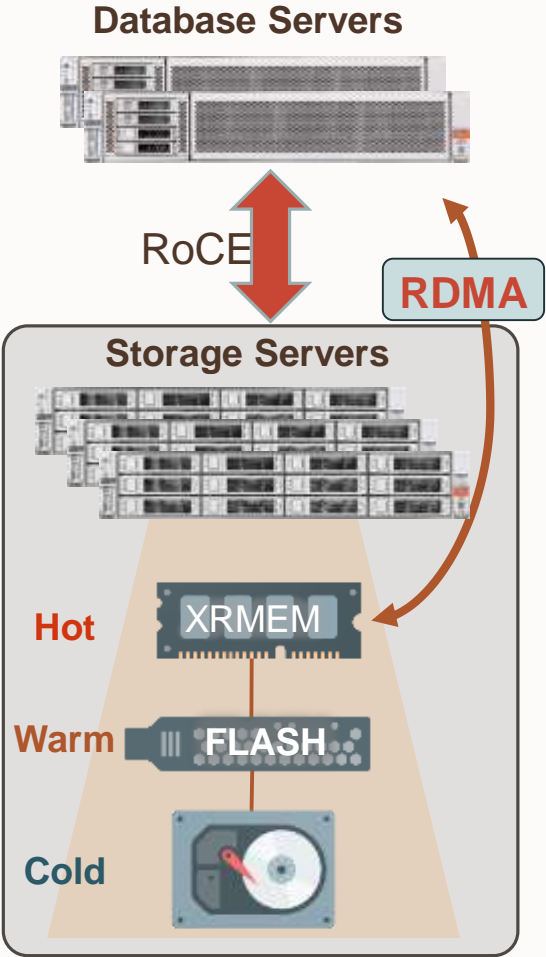
- Bypasses network and I/O software, interrupts, context switches
- Data is transparently managed in multiple storage tiers to minimize latency
- High-performance active-active 100 Gbit/s internal network maximize throughput
- Speeds up both database reads and commits

Database cluster virtualization

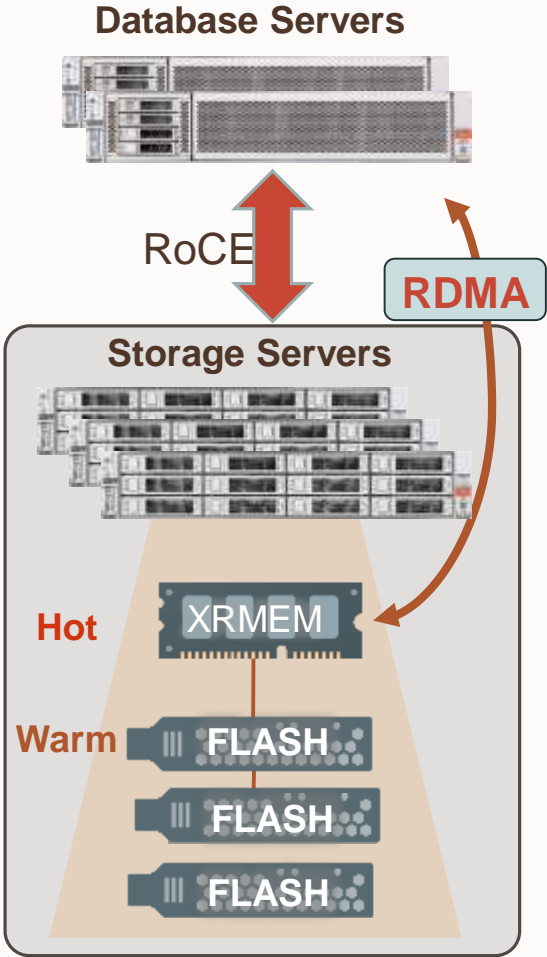
- Deploy environments with different needs on the same system
 - Dev-Test, Staging Production, DR
 - OLTP, Analytics, Mixed Workloads
- Share and manage pools of resources to increase efficiency and lower costs
- Isolate resources to meet differing security and predictability requirements

Exadata architecture and Storage options

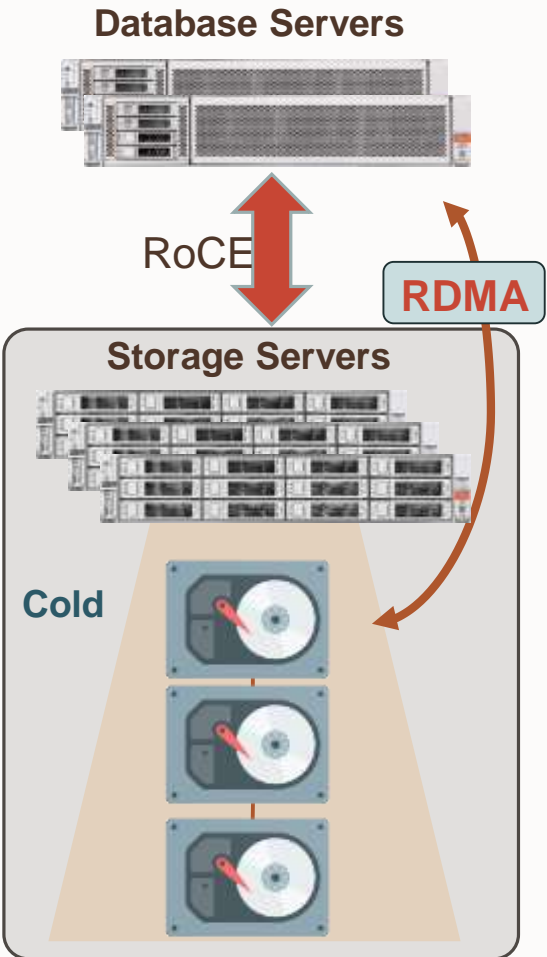
High-Capacity (HC) Storage



Extreme Flash (EF) Storage



Extended (XT) Storage



Exadata X10M Storage Types HC, EF and XT

High-Capacity (HC) Storage



CPU

- 2 x 32-core AMD EPYC™ 9334 processors 2.7 GHz (up to 3.9 GHz)

Disk

- 12 x 22 TB 7,200 RPM disks

Memory

- 256 GB
- 1.25 TB XRMEM (PMEM)
- 4 x 6.8 TB NVMe PCIe4.0 (FLASH)

Extreme Flash (EF) Storage



CPU

- 2 x 32-core AMD EPYC™ 9334 processors 2.7 GHz (up to 3.9 GHz)

Memory

- 256 GB
- 1.25 TB XRMEM (PMEM)
- 4 x 6.8 TB NVMe PCIe4.0 (FLASH)
- 4 x 30.72 TB NVMe PCIe4.0 (FLASH)

Extended (XT) Storage



CPU

- 1 x 32-core AMD EPYC™ 9334 processors 2.7 GHz (up to 3.9 GHz)

Memory

- 128 GB

Disk

- 12 x 22 TB 7,200 RPM disks



Exadata Database Machine X10M Shapes



Quarter Rack – X10M

Total Capacity

DB Servers
Storage Servers

380 Cores – 1,024 GB Memory
192 TB Usable DB Storage

NEW
SHAPE



Quarter Rack – X10M - L

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

NEW
SHAPE



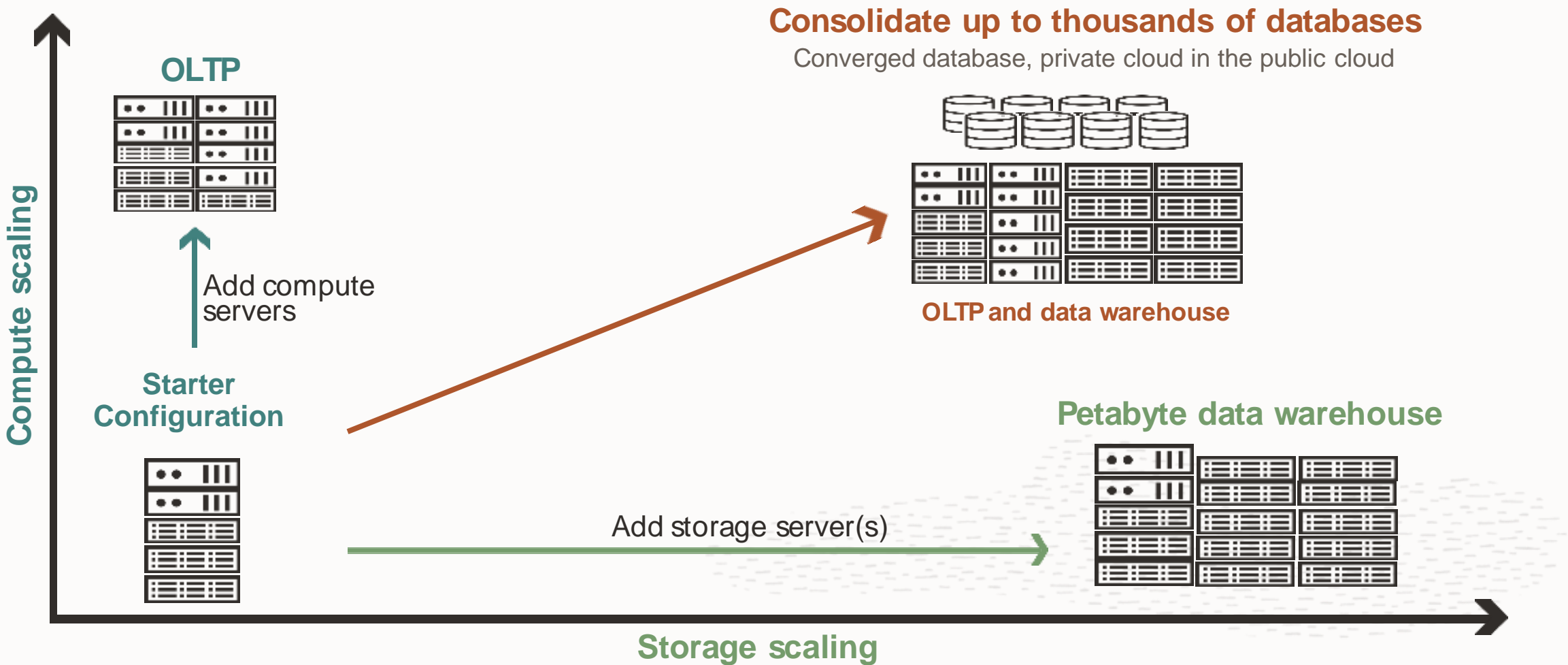
Quarter Rack X10M-XL

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.



Easily right-size your service by adding compute and storage as needed



Online – No downtime scaling





What is a Exadata Storage Server Software?

Oracle Exadata Storage Server is a highly optimized storage server that runs Oracle Exadata System Software to store and access Oracle Database data.

Oracle Exadata System Software provides database-aware storage services, such as the ability to offload SQL and other database processing from the database server, while remaining transparent to the SQL processing and database applications. Oracle Exadata Storage Servers process data at the storage level, and pass only what is needed to the database server.



Do not confuse **Exadata Storage Software...**

With Oracle Database Software.....

They are not the same thing.



Exadata Database Machine User Guide



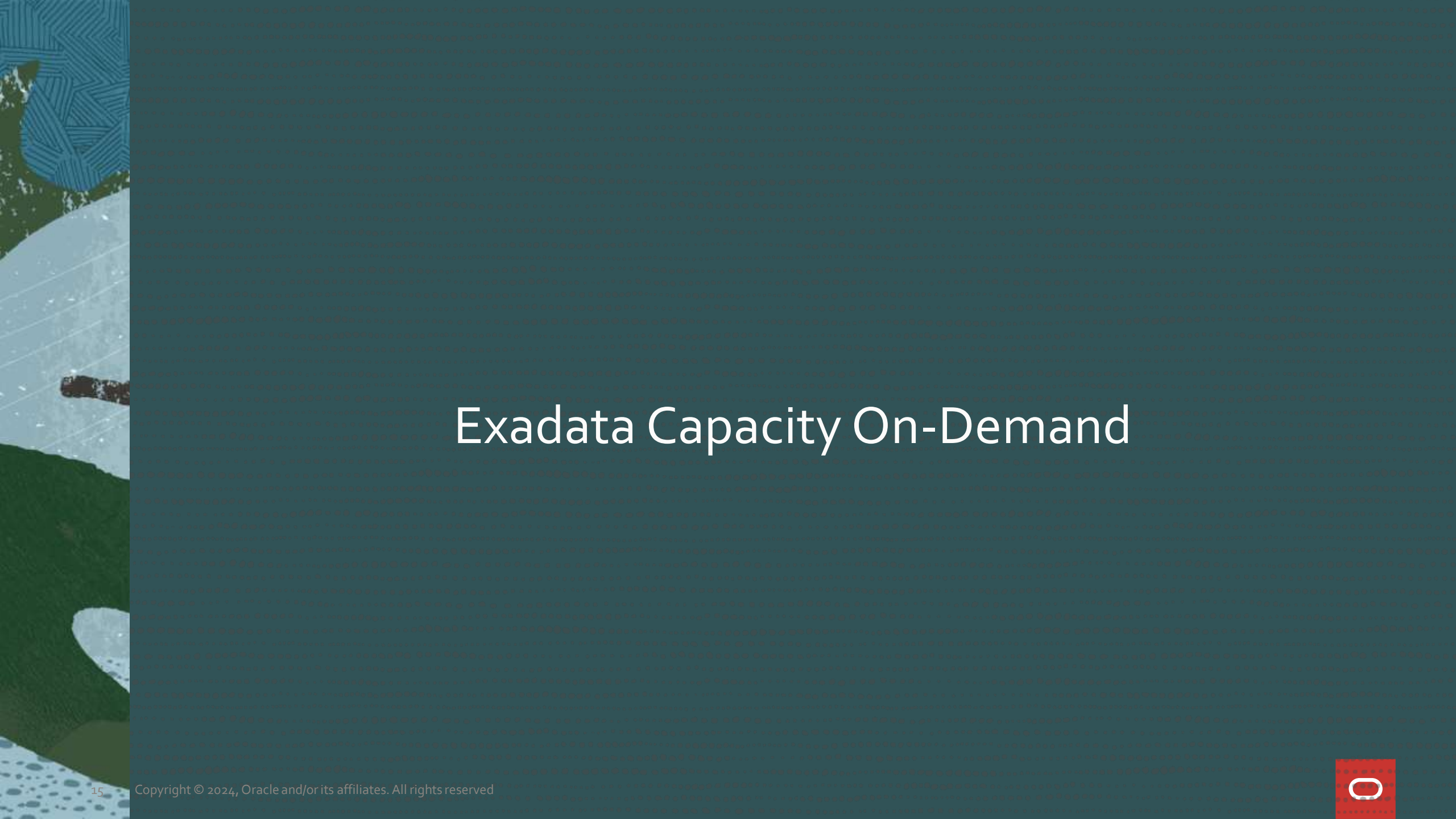


Exadata Database Machine Licensing User Guide

- **Capacity-on-demand (CoD)** refers to an Exadata database server that is installed with a subset of its cores turned off so that the database software license cost can be reduced.



- **Oracle Trusted Partitions for Oracle Exadata** . That means any Oracle software running in a VM only needs to be licensed for the number of cores assigned to that VM, subject to a minimum core requirement equal to Capacity on Demand.
- **Third-Party Product Licenses**



Exadata Capacity On-Demand



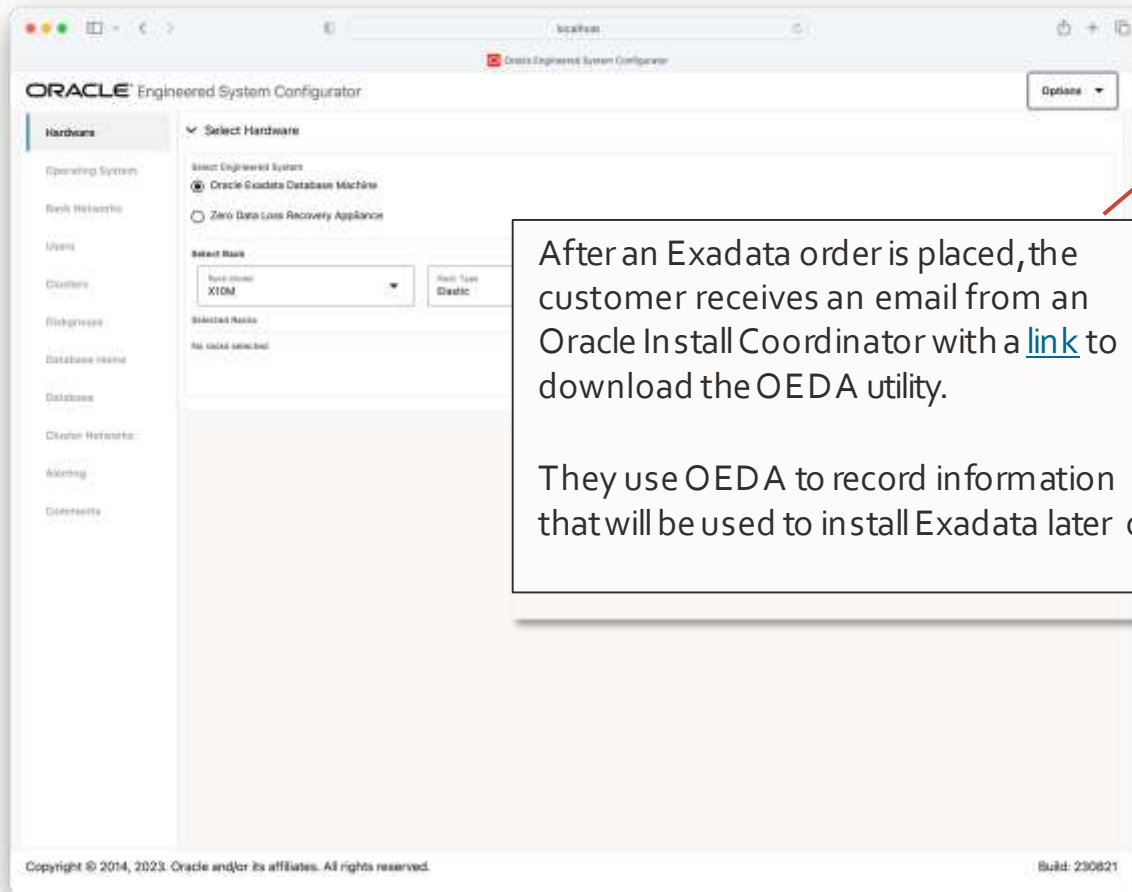


Exadata Capacity on Demand Definition (CoD)

“Capacity-on-Demand (CoD) refers to an Exadata database server that is installed with a subset of its cores turned off so that the database software license cost can be reduced.

Additional cores are subsequently enabled and licensed as needed. Once turned on a core may **not be turned off.**”

Oracle Database Deployment Assistant (OEDA)



After an Exadata order is placed, the customer receives an email from an Oracle Install Coordinator with a [link](#) to download the OEDA utility.

They use OEDA to record information that will be used to install Exadata later on.

Hello <customer name>,

Thank you for your recent Exadata Database Machine order. You are listed as the contact for coordinating the delivery and installation of the machine. I am the Install Coordinator and will be working with you over the next few weeks on the delivery and deployment of your machine.

I would like to schedule a call with you to review the next steps. Please let me know your availability. If you are not the correct contact, please let me know who would be the right person with whom I should work.

In preparation for our meeting, please download

1. [Oracle Exadata Deployment Assistant \(OEDA\)](#) from OTN - This is a Java tool used to gather the information needed to deploy the Exadata Database Machine.
2. Exadata documentation from [My Oracle Support](#) - Patch 10386736.

I've attached a document that briefly describes how to use the OEDA tool. Also attached is a logistics template which captures logistics information for your site. Please fill it out and return it back to me.

Thanks and best regards,

<IC email signature>



Oracle Database Deployment Assistant (OEDA)

The screenshot shows the Oracle Engineered System Configurator interface. The left sidebar contains a navigation menu with items: Hardware, Operating System, Rack Network, Users, Clusters, Storage, Database, Cluster Network, and Components. The main content area is titled 'Rack 1: X10M Elastic Rack HC 22TB'. It includes sections for Rack Details, Customer Details, Flash Cache Configuration, and Database Server Details. The 'Capacity on Demand' checkbox is highlighted with a red box.

Oracle Engineered System Configurator

Rack 1: X10M Elastic Rack HC 22TB

Rack Details

Rack Name: Rack 1: X10M Elastic Rack HC 22TB

Customer Details

Customer Name: ACME

Application/Unit # 123456

Region: America

Timezone: New_York

Number of Database Servers: 2

Number of Storage Servers: 3

Flash Cache Configuration

Default ☒ Write Through ☐ Write Back

Database Server Details

Database Server Physical Memory Size: 312 GB

Capacity on Demand

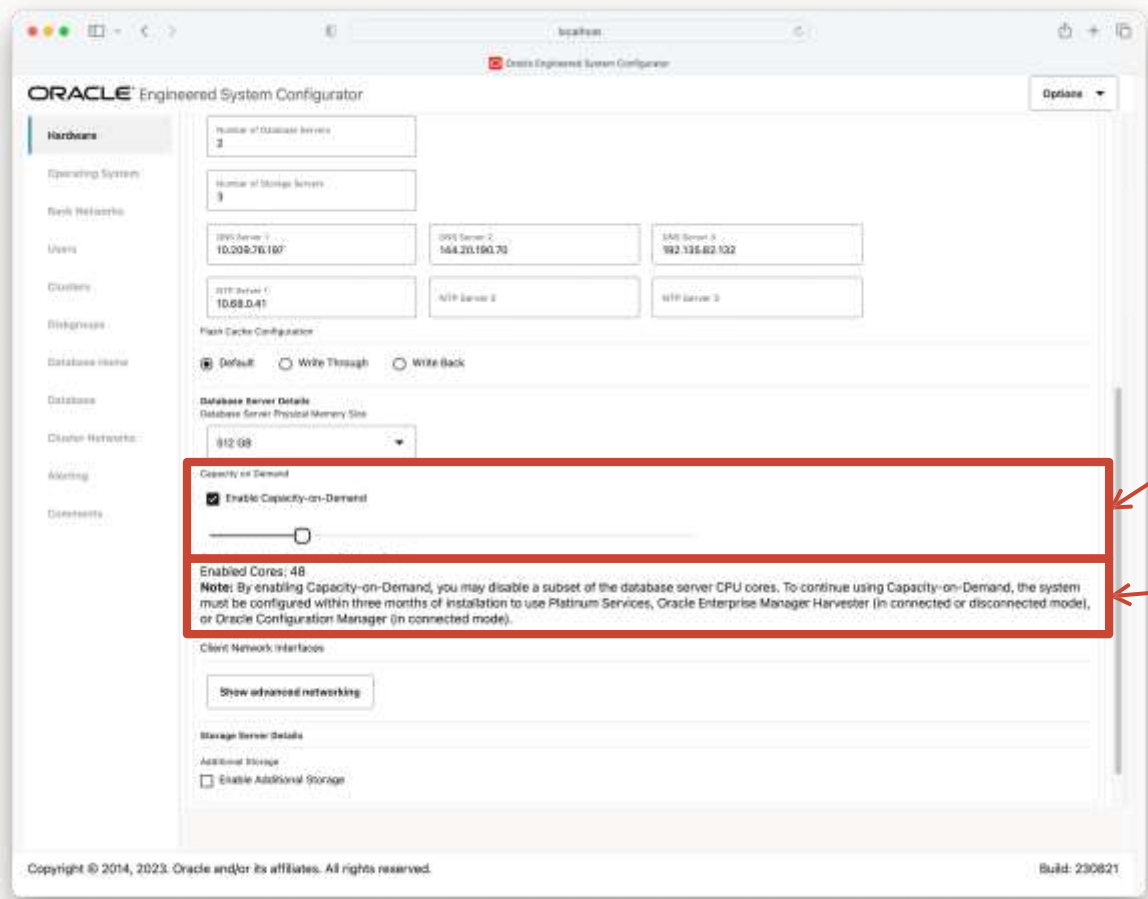
☐ Enable Capacity-on-Demand

After entering rack details, OEDA asks for information related to the compute nodes (db servers). This is where Cores are disabled for Capacity-On-Demand.

Customer checks this box to enable CoD.



Oracle Database Deployment Assistant (OEDA)

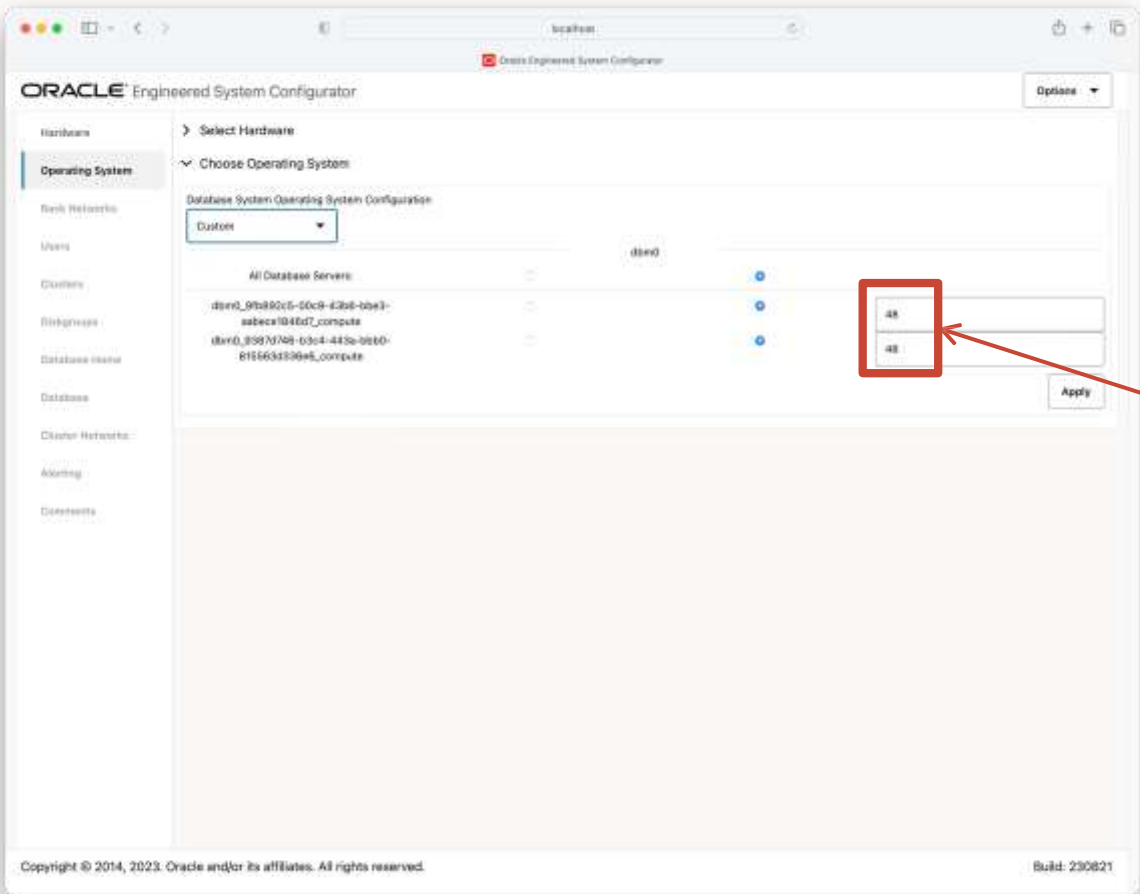


If Capacity-on-Demand is chosen, the customer uses this slider to pick number of active cores per DB server. By default, all DB servers will get this number.

This message is displayed to remind customers they need to be connected to support to use Capacity-on- Demand.



Oracle Database Deployment Assistant (OEDA)



Customers can modify the core count for each node if desired. Oracle recommends that all compute nodes within the same cluster have the same number of active cores





Exadata Capacity Monitoring Tool



OEM 12c,13c Monitoring Exadata Capacity-On-Demand Licensing (Doc ID 2008418.1)

APPLIES TO:

Enterprise Manager for Exadata - Version 12.1.0.6.0 to 13.3.1.0.0 [Release 12.1 to 13c]
Enterprise Manager Base Platform - Version 12.1.0.4.0 to 13.3.0.0.0 [Release 12.1 to 13c]
Information in this document applies to any platform.
Oracle Exadata Database Machine Capacity-On-Demand Licensing (CoD)
Oracle Management Service 12c Release 4 (12.1.0.4.0) to 13.3.1.0.0(13c)
Oracle Management Agent 12c Release 4 (12.1.0.4.0) to 13.3.1.0.0(13c)

DETAILS

[Capacity-on-demand](#) (CoD) refers to an Exadata database server that is installed with a subset of its compute cores turned off so that the software license cost can be reduced. Additional cores are subsequently enabled and licensed as needed. CoD does NOT apply to Exadata Storage Server cores, nor does it reduce the Exadata hardware cost.

In order to qualify for CoD, the Exadata system must be using an approved monitoring tool so the number of active cores can be validated. The three methods allowed are (1) OCM (Oracle Configuration Manager) in connected mode, (2) Enterprise Manager, which can be used in disconnected mode, or (3) Platinum Services. We allow up to 90 days between Exadata installation and installation of one of these three methods.

This note describes the steps that needs to be taken in Enterprise Manager in disconnected mode to monitor the number of active cores.



Configure OEM Trusted Partitioning for PCA and Exadata (Doc ID 2814712.1)

SOLUTION

For approved Oracle Engineered Systems, Oracle permits the use of Oracle VM Server (OVM) or Oracle Linux KVM as a means to limit the number of Oracle Processor licenses required.

Oracle's Trusted Partitions policy requires use of Oracle Enterprise Manager as described below – if both of these conditions are met, the partition is deemed a 'Trusted Partition'.

For virtual machines to participate under Oracle Trusted Partition based licensing, they need to be monitored by Oracle Enterprise Manager.

This means that the Oracle Enterprise Manager agent should be deployed on the guest operating system running on those VMs.

Configuration for the Oracle Private Cloud Appliance:

For the Oracle Private Cloud Appliance, Oracle Enterprise Manager should discover the Oracle Private Cloud Appliance Rack target and register the Oracle Private Cloud Appliance Oracle VM Manager target to enable the report.

The following details the steps to generate the report.

1. From the Oracle Private Cloud Appliance target page menu select 'Resource Utilization' then 'Consumption Tracking'.
2. Change the Time Period to Custom...
3. Change Start Date and End Date to the required range.
4. Click Export button.
5. Click Save to save the spreadsheet to your local storage.
6. Be sure to place the saved report in a safe and secure location.



Understanding Exadata Price List





Exadata Database Machine High Capacity (HC) Price

	Database Machine Price	Oracle Premier Support for Systems (Annual)	Oracle Premier Support for Operating Systems (Annual)	Oracle Customer Data and Device Retention (Annual)	Notes
Database Machine Base Configurations					
Exadata Database Machine X10M Extreme Flash (EF) Quarter Rack (512 GB per Database Server)	465,774	55,893	37,262	13,973	1, 2, 14, 29
Exadata Database Machine X10M High Capacity (HC) Quarter Rack (512 GB per Database Server)	423,403	50,808	33,872	12,702	1, 2, 14, 29
Exadata Database Machine X10M Extreme Flash (EF) Quarter Rack (1.5 TB per Database Server)	505,032	60,604	40,403	15,151	1, 2, 14, 29
Exadata Database Machine X10M High Capacity (HC) Quarter Rack (1.5 TB per Database Server)	462,691	55,523	37,015	13,881	1, 2, 14, 29
Exadata Database Machine X10M Extreme Flash (EF) Quarter Rack (2.25 TB per Database Server)	553,032	66,364	44,243	16,591	1, 2, 14, 29
Exadata Database Machine X10M High Capacity (HC) Quarter Rack (2.25 TB per Database Server)	510,691	61,283	40,855	15,321	1, 2, 14, 29
Exadata Database Machine X10M Extreme Flash (EF) Quarter Rack (3 TB per Database Server)	746,722	89,607	59,738	22,402	1, 2, 14, 29
Exadata Database Machine X10M High Capacity (HC) Quarter Rack (3 TB per Database Server)	704,381	84,526	56,350	21,131	1, 2, 14, 29
Exadata Database Machine X9M-2 Extreme Flash (EF) Quarter Rack (512 GB per Database Server)	423,403	50,808	33,872	12,702	1, 2, 14, 29
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Exadata Database Machine X9M-2 Extreme Flash (EF) Quarter Rack (1 TB per Database Server)	451,397	54,168	36,112	13,542	1, 2, 14, 29
Exadata Database Machine X9M-2 High Capacity (HC) Quarter Rack (1 TB per Database Server)	451,397	54,168	36,112	13,542	1, 2, 14, 29
Exadata Database Machine X9M-2 Extreme Flash (EF) Quarter Rack (2 TB per Database Server)	481,724	57,807	38,538	14,452	1, 2, 14, 29
Exadata Database Machine X9M-2 High Capacity (HC) Quarter Rack (2 TB per Database Server)	481,724	57,807	38,538	14,452	1, 2, 14, 29
Exadata Database Machine X9M-8 Extreme Flash (EF) Half Rack	1,090,584	130,870	87,247	32,718	1, 2, 14
Exadata Database Machine X9M-8 High Capacity (HC) Half Rack	1,090,584	130,870	87,247	32,718	1, 2, 14



Exadata Database Machine Extreme Flash (EF) Price

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Storage server and Database Server cost per Unit

Exadata					
	Prices in USA (Dollar)				
	Storage Server Price	Oracle Premier Support for Systems (Annual)	Oracle Premier Support for Operating Systems (Annual)	Oracle Customer Data and Device Retention (Annual)	Notes
Exadata Storage Server plus Network Fabric					
Exadata Storage Server X10M Extreme Flash (EF) plus Network Fabric	75,933	9,112	6,075	2,278	1, 29, 30
Exadata Storage Server X10M High Capacity (HC) plus Network Fabric	61,820	7,418	4,946	1,855	1, 29
Exadata Storage Server X10M Extended (XT) plus Network Fabric	19,246	2,310	1,540	577	1, 27, 29
Exadata Storage Server X9M-2 Extreme Flash (EF) plus Network Fabric	61,820	7,418	4,946	1,855	1, 29
Exadata Storage Server X9M-2 High Capacity (HC) plus Network Fabric	61,820	7,418	4,946	1,855	1, 29
Exadata Storage Server X9M-2 Extended (XT) plus Network Fabric	19,246	2,310	1,540	577	1, 27, 29
Exadata Eighth Rack Storage Server X9M-2 High Capacity (HC) plus Network Fabric	43,157	5,179	3,453	1,295	1, 29

Exadata Storage Server

Exadata Database Server

	Database Server Price	Oracle Premier Support for Systems (Annual)	Oracle Premier Support for Operating Systems (Annual)	Oracle Customer Data and Device Retention (Annual)	Notes
Exadata Database Server plus Network Fabric					
Exadata Database Server X10M (512 GB per Database Server) plus Network Fabric	52,488	6,299	4,199	1,575	1, 29
Exadata Database Server X10M (1.5 TB per Database Server) plus Network Fabric	72,132	8,656	5,771	2,164	1, 29
Exadata Database Server X10M (2.25 TB per Database Server) plus Network Fabric	96,132	11,536	7,691	2,884	1, 29
Exadata Database Server X10M (3 TB per Database Server) plus Network Fabric	192,977	23,157	15,438	5,789	1, 29
Exadata Database Server X9M-2 (512 GB per Database Server) plus Network Fabric	52,488	6,299	4,199	1,575	1, 29
Exadata Database Server X9M-2 (1 TB per Database Server) plus Network Fabric	66,485	7,978	5,319	1,995	1, 29
Exadata Database Server X9M-2 (2 TB per Database Server) plus Network Fabric	81,648	9,798	6,532	2,449	1, 29
Exadata Database Server X9M-8 plus Network Fabric	386,079	46,329	30,886	11,582	1



Exadata Storage Server Software on Price List



	License Price	Software Update License & Support	Licensing Metric	Notes
Exadata Storage Server Software				
Exadata Storage Server Software	10,000	2,200	Disk Drive	
	20,000	4,400	Flash Drive	





Understanding Support Price List

Oracle Premier Support for Systems

	Database Machine Price	Oracle Premier Support for Systems (Annual)	Oracle Premier Support for Operating Systems (Annual)	Oracle Customer Data and Device Retention (Annual)	Notes
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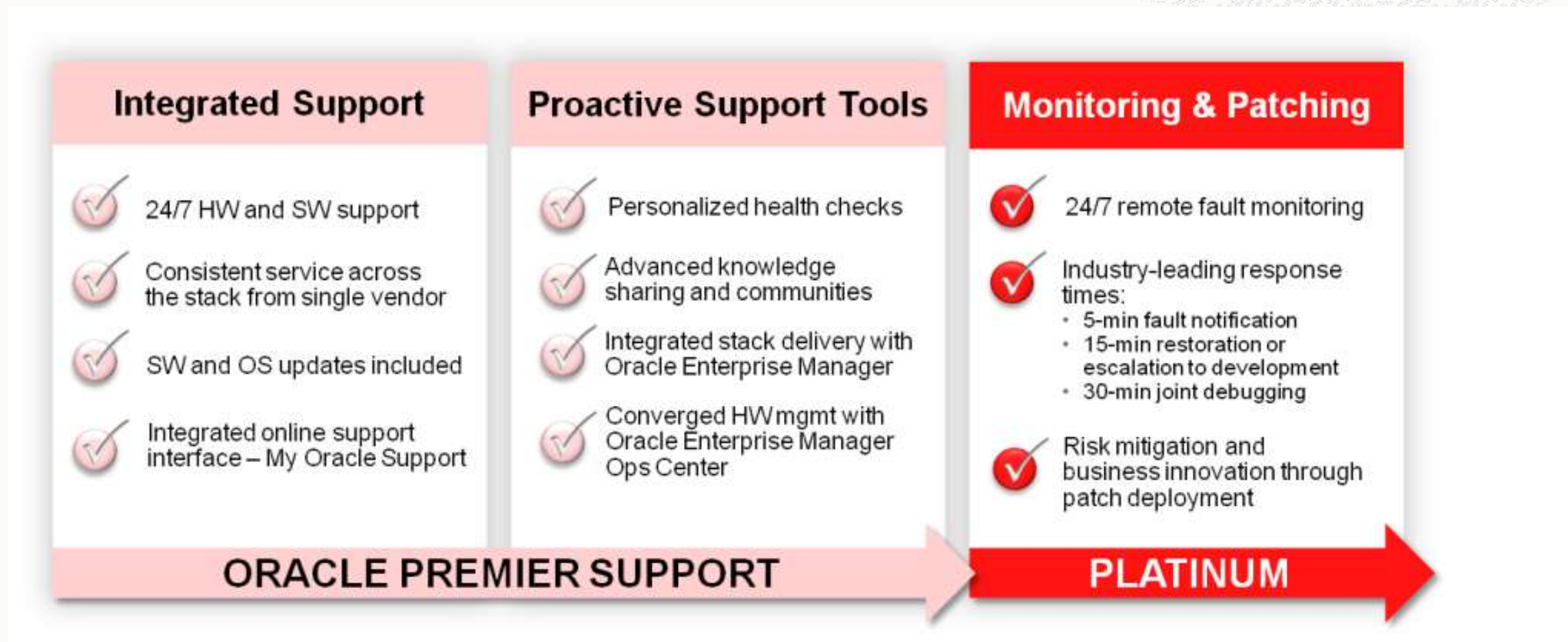
Rapid-response hardware service : Our highly trained technicians leverage their experience, Oracle diagnostic tools, and parts to quickly troubleshoot and resolve system issues.

Essential product updates : includes updates for integrated software (such as firmware) and covered software. That means access to critical security patches, bug fixes, feature enhancements, and any new releases that become available while you maintain active support coverage

Unlimited, 24/7 access to Oracle system specialists : Provides fast answers and proven solutions based on our experience in supporting more than a million systems across a variety of industries and countless application environments.



Oracle Premier Support vs Platinum Support



Oracle Premier support for Operating systems



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Oracle Customer Data and Device Retention



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Exadata Database Machine X10M Extreme Flash (EF) Quarter Rack (3 TB per Database Server)	746,722	89,607	59,738	22,402	1, 2, 14, 29
Exadata Database Machine X10M High Capacity (HC) Quarter Rack (3 TB per Database Server)	704,381	84,526	56,350	21,131	1, 2, 14, 29
Exadata Database Machine X9M-2 Extreme Flash (EF) Quarter Rack (512 GB per Database Server)	423,403	50,808	33,872	12,702	1, 2, 14, 29

Keep in compliance and rest easy, Based on unique customer needs, Oracle offers support for retaining nonfunctioning disk drives and persistent memory components. Additionally, because Oracle Customer Data and Device Retention is a service, you can plan and budget for it instead of needing to purchase new components to replace failed ones on an ad hoc basis.





Exadata And Database Features



Oracle Database and Exadata Platform Innovations



Multitenant



In-Memory DB



Real Application Clusters



Active Data Guard



Partitioning



Advanced Compression



Advanced Security, Label Security, DB Vault



Real Application Testing

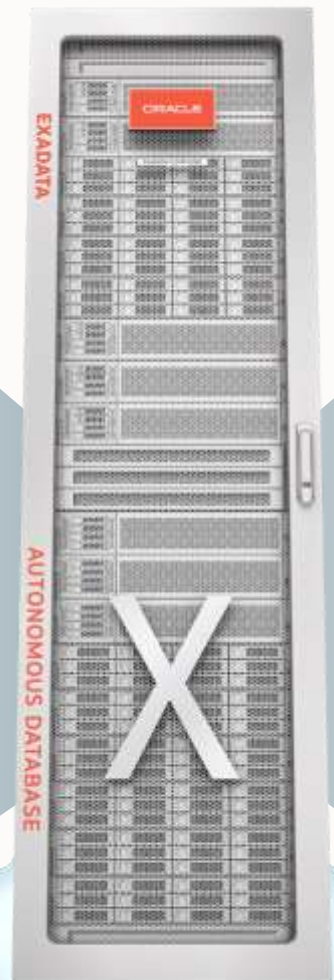


Advanced Analytics, Spatial and Graph



Management Packs for Oracle Database

All Oracle Database Innovations



All Exadata DB Machine Innovations

Offload SQL to Storage



RoCE Fabric



XRMEM Data Accelerator



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





Oracle Core Factor Table





Resources

Service Request Types: Technical vs Non-Technical

DashboardKnowledgeService RequestsPatches & UpdatesCommunityCertificationsMore...

Service Requests Home

Technical Service Requests

Ask in Community... or Create Technical SR

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

Non-Technical Service Requests

Create Non-Technical SR

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



Oracle Software Investment Advisor



Licensing Solutions

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



Cloud Sizing

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



Investment Economics

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



Deployment Optimization

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



License Knowledge Transfer

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



Entitlement Intelligence

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

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





Why Engage with Oracle License Management Service?



- **Ensure** cost-effective deployment of your Oracle assets
- **Validate** and authenticate your Oracle compliance position
- **Enhance** your ability to effectively manage Oracle software licenses





Resources

- **Exadata Database Machine Licensing User guide**

<https://docs.oracle.com/en/engineered-systems/exadata-database-machine/dbmli/licensing-information-users-guide-exadata-database-machine-dbml.pdf>

- **Oracle License Management Services**

<https://www.oracle.com/corporate/license-management-services/>

- **Oracle Engineered Systems Price List**

<https://www.oracle.com/a/ocom/docs/corporate/pricing/exadata-pricelist-070598.pdf>

- **Oracle PaaS and IaaS Universal Credits Service Description**

<https://www.oracle.com/cloud/bring-your-own-license/faq/>

- **OCI Cost Estimator**

<https://www.oracle.com/cloud/costestimator.html>

- **Oracle Premier Support For Systems**

<https://www.oracle.com/a/ocom/docs/corporate/oracle-premier-support-for-systems.pdf>

- **Oracle Premier Support for Operating Systems**

<https://www.oracle.com/a/ocom/docs/oracle-premier-support-for-operating-systems-o61678.pdf>

- **Oracle Customer Data and Device Retention**

<https://www.oracle.com/assets/data-retention-ds-405152.pdf>

- **Oracle Partner Network**

<https://www.oracle.com/partnernetwork/program>

- **Oracle Licenses e-mail**

infoprice@oracle.com

- **Introducing Exadata X10M**

<https://learn.oracle.com/ols/learning-path/oracle-compute-cloudcustomer-2024-sales-specialist/89350/128629>

- **Exadata Cloud at Customer**

<https://docs.oracle.com/en/engineered-systems/exadata-cloud-at-customer/>

- **Database Licensing Information User Manual**

<https://docs.oracle.com/en/database/oracle/oracle-database/19/dblic/database-licensing-information-user-manual.pdf>

- **Oracle Platinum Services Frequently Asked Questions**

<http://www.audentia-gestion.fr/oracle/platinum-services-faq-1653259.pdf>

- **Using Oracle Exadata Deployment Assistant**

<https://docs.oracle.com/en/engineered-systems/exadata-database-machine/dbmin/exadata-deployment-assistant.html#GUID-E19556E8-47A9-4505-8893-EFoC43AE2E03>

- **Oracle Database Licensing Information User Manual**

<https://docs.oracle.com/en/database/oracle/oracle-database/19/dblic/database-licensing-information-user-manual.pdf>



Thank you

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