



# Exadata Database Service on Exascale Infrastructure (ExaDB-XS)

All-in-One Datasheet Produced by DB Services Explorer

## Overview

Exadata Database Service on Exascale Infrastructure (ExaDB-XS) provides a cloud service where customers can start with a small virtual machine (VM) cluster, and easily scale as needs grow. The user experience is similar to Exadata Database Service on Dedicated Infrastructure. Oracle manages all of the physical infrastructure in a shared multitenancy infrastructure service model.

Visit the [DB Services Explorer Portfolio page](#) to get the latest version of this data sheet and see data sheets for all of the Oracle Cloud Database services.

## Deployment

<b>Database Type</b>	Single Database, Database Consolidation Pool
<b>Management Model</b>	Co-managed PaaS
<b>Supported Cloud Environments</b>	Oracle Cloud Infrastructure, Oracle Database@Azure and Oracle Database@Google Cloud
<b>SKUs for starting configuration</b>	B109356 (ECPU) or B109357 (ECPU BYOL) B107952 (Smart DB storage) Backups - Oracle Database Autonomous Recovery Service - B95240 or Oracle Database Zero Data Loss Autonomous Recovery Service - B95241
<b>Oracle AI Database BYOL Support</b>	BYOL Enterprise Edition (EE)
<b>DB Versions Supported</b>	Oracle AI 26ai (Long-term release), Oracle 19c (Long-term release)
<b>Hardware Infrastructure</b>	Shared Engineered System

## Usage Models

<b>Recommended Workloads</b>	Analytics Blockchain Data Lake Data Science / Machine Learning Data Warehouse / Data Mart Data and IoT Event Streams Graph
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	Mixed Workload (Transaction + Analytics) Transaction Processing (OLTP) Vector
<b>Recommended Data Models</b>	Document Store (JSON) Document Store (XML) NoSQL Spatial Text Vector
<b>Certified Oracle Applications</b>	JD Edwards EnterpriseOne Tools 9.2.6 and later JD Edwards EnterpriseOne Tools 9.2.9.3 and later Oracle APEX AI Application Generator Oracle Fusion Middleware 14.1.2.0.0 PeopleSoft PeopleTools 8.62 and later Siebel Enterprise Server 25.2 and later

## Capacity

<b>Configuration Options</b>	The basic unit of consumption in ExaDB-XS is a VM cluster. To facilitate VM portability, Exascale hosts storage for VM file systems on shared storage that is fully managed by Oracle. Oracle can migrate VMs across a pool of physical servers, because the VM filesystems that host the database binaries do not reside on local physical servers. VMs are migrated automatically as required for maintenance, or in the event of a system failure. VMs can also be scaled vertically by changing the number of Elastic Compute Processing Unit (ECPUs) units, and changing VM memory allocation. An ECPU is an abstracted measure of compute resources. ECPUs are based on the number of cores elastically allocated from a pool of compute servers. You need at least 8 ECPUs per VM to provision a VM Cluster. VMs can be scaled in increments of 4 ECPUs.
<b>CPU Range</b>	0 to 2000 ECPUs
<b>Shapes</b>	Oracle Exadata Exascale Infrastructure ECPUs: 0 to 2000 Max DB TB: 1500
<b>CPU scaling</b>	Online

<b>Storage scaling</b>	Online
<b>Max IOPs</b>	flash 8k: 2.8M read + 1M write (per storage server)
<b>Max Throughput</b>	100 GB/s
<b>Max Memory</b>	1.35TBx32 = 44 TB

## Availability

<b>Nines of availability (may require configuration)</b>	99.95 SLO
<b>Oracle DB Maximum Availability Architecture medals (for OCI / Cloud@Customer deployments)</b>	Not MAA certified
<b>Automated backups max retention</b>	up to 95 days
<b>Long-term backup retention (up to 10 years)</b>	Yes

## Functionality Included

<b>Included Oracle DB Options for license-included service (*)</b>	Active Data Guard Advanced Compression Advanced Security Database In-Memory Database Vault Label Security Multitenant Partitioning Real Application Clusters (Oracle RAC) Real Application Testing Spatial and Graph
<b>Included Oracle EM Packs for license-included service (*)</b>	Cloud Management Pack for Oracle Database Data Masking and Subsetting Pack Database Lifecycle Management Pack for Oracle Database Diagnostics Pack Tuning Pack
<b>Free Add-Ons (no extra licensing required)</b>	Oracle APEX AI Application Generator Oracle Data Safe Oracle GoldenGate 1) Limited Use Term License Promotion and 2) Oracle GoldenGate Database Migration Term (both available on Oracle Cloud Marketplace) Oracle REST Data Services (ORDS) SQL Developer Web

\*Check service documentation for feature availability and limitations

## Locations

### Oracle Cloud Infrastructure

**APAC:** Chuncheon - YNY, Hyderabad - HYD, Melbourne - MEL (G), Mumbai - BOM (G), Osaka - KIX, Seoul - ICN (A), Singapore - SIN (A, G), Sydney - SYD (G), Tokyo - NRT (A, G)

**EMEA:** Abu Dhabi - AUH, Amsterdam - AMS (A), Dubai - DXB, Frankfurt - FRA (A, G), Jeddah - JED, Johannesburg - JNB (A), London - LHR (A, G), Marseille - MRS, Newport - CWL, Paris - CDG, Zurich - ZRH (G)

**LAD:** Bogota - BOG, Monterrey - MTY, Queretaro - QRO, Santiago - SCL, Sao Paulo - GRU (G), Vinhedo - VCP (A)

**North America:** Ashburn - IAD (A, G), Montreal - YUL (G), Phoenix - PHX (A, G), San Jose - SJC (A), Toronto - YYZ (A, G)

\* New services and hardware generations are rolled out across regions, check your region for current status. (A) = Interconnect to Microsoft Azure available. (G) = Interconnect to Google Cloud available

### Azure

**APAC:** Australia East, Southeast Asia

**EMEA:** France Central, Germany West Central, Italy North, UK South

**LAD:** Brazil South

**North America:** Canada Central, Central US, East US

### Google Cloud

None to date. Visit the Multicloud Updates page (link below) to check on potential roadmap items.

### AWS

None to date. Visit the Multicloud Updates page (link below) to check on potential roadmap items.

[Multicloud Updates](#)

## Operational Controls

Allows installing additional software/agents on	Yes
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the host	
Allows installing OS packages	No
Allows kernel changes	No
Allows OS runtime changes	Yes
Allows sysdba access	Yes
Oracle operator access control	No
Control DB patch level	Yes
Control DB release update (RU) level	Yes
Control DB version	Yes
Control maintenance window	Yes
Preview and Validate Patches for Zero-Regression SLO	No

## Additional Information

Open Source DB	No
Delta Sharing / Cloud Links	No
Select AI to Generate SQL from Natural Language Prompts	No
Mongo-compatible API	Yes
Supports non-CDB home	No

## Reference Links

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### General

[Multicloud Interconnect](#)

[Oracle PaaS and IaaS Universal Credits Service Descriptions](#)

[Service Level Objectives](#)

[Oracle DB Maximum Availability Architecture medals](#)

[Oracle Cloud Infrastructure Compliance](#)

[Oracle Database Releases](#)

[BYOL FAQ](#)

[OCI Locations and Status](#)

[Oracle Database Multicloud Regions, Capabilities, Compliance, High Availability and Migration](#)

### Service Specific

[Cost Estimator](#)

[ExaDB-XS Customer References](#)

[Exadata Cloud Service on oracle.com](#)

[Oracle Database Cloud Migration](#)

[Oracle Exadata Database Service on Exascale Infrastructure Overview](#)

[What's New in Exadata Exascale](#)