



# Globally Distributed Exadata Database on Exascale Infrastructure (Globally Distributed ExaDB-XS)

All-in-One Datasheet Produced by DB Services Explorer

## Overview

Globally Distributed Exadata Database on Exascale Infrastructure uses a flexible, serverless architecture that can be dynamically scaled up or down to meet the needs of changing workloads without complex setup or management. Organizations with high-volume transaction processing, real-time analytics and variable agentic AI workloads gain the benefits of an always-on architecture, lower costs, simplified operations, and the ability to expand globally with confidence.

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>                    | Distributed Database   |
| <b>Management Model</b>                 | Co-managed PaaS  |
| <b>Supported Cloud Environments (*)</b> | Oracle Cloud Infrastructure  |
| <b>SKUs for starting configuration</b>  | B110989 (ECPU) or B110990 (ECPU BYOL)<br>B107952 (Smart DB storage)<br>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)   |
| <b>Hardware Infrastructure</b>          | Shared Engineered System   |

## Usage Models

|                              |   |
|------------------------------|---|
| <b>Recommended Workloads</b> | Analytics<br>Blockchain<br>Data Lake<br>Data Science / Machine Learning<br>Data Warehouse / Data Mart<br>Data and IoT Event Streams<br>Graph<br>Mixed Workload (Transaction + Analytics)<br>Transaction Processing (OLTP)<br>Vector |
|------------------------------|---|

|                                      |   |
|--------------------------------------|---|
| <b>Recommended Data Models</b>       | Document Store (JSON)<br>Document Store (XML)<br>NoSQL<br>Spatial<br>Text<br>Vector |
| <b>Certified Oracle Applications</b> | Oracle APEX AI Application Generator  |

## 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<br>ECPUs: 0 to 2000<br>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> | <ul style="list-style-type: none"> <li>Active Data Guard</li> <li>Advanced Compression</li> <li>Advanced Security</li> <li>Database In-Memory</li> <li>Database Vault</li> <li>Label Security</li> <li>Multitenant</li> <li>Partitioning</li> <li>Real Application Clusters (Oracle RAC)</li> <li>Real Application Testing</li> <li>Spatial and Graph</li> </ul> |
| <b>Included Oracle EM Packs for license-included service (**)</b>   | <ul style="list-style-type: none"> <li>Cloud Management Pack for Oracle Database</li> <li>Data Masking and Subsetting Pack</li> <li>Database Lifecycle Management Pack for Oracle Database</li> <li>Diagnostics Pack</li> <li>Tuning Pack</li> </ul>   |
| <b>Free Add-Ons (no extra licensing required)</b>                   | <ul style="list-style-type: none"> <li>Oracle APEX AI Application Generator</li> <li>Oracle Data Safe</li> <li>Oracle GoldenGate 1) Limited Use Term License Promotion and 2) Oracle GoldenGate Database Migration Term (both available on Oracle Cloud Marketplace)</li> <li>Oracle REST Data Services (ORDS)</li> <li>SQL Developer Web</li> </ul>             |

## Security and Compliance

|  |     |
|--|-----|
| <b>Recommended for hosting sensitive data and candidate for compliance with non-audited programs (customer responsibility)</b> | Yes |
|--|-----|

## Operational Controls

|   |     |
|---|-----|
| <b>Allows installing additional software/agents on the host</b> | Yes |
| <b>Allows installing OS packages</b>                            | No  |
| <b>Allows kernel changes</b>                                    | No  |

|   |     |
|---|-----|
| <b>Allows OS runtime changes</b>                            | Yes |
| <b>Allows sysdba access</b>                                 | Yes |
| <b>Oracle operator access control</b>                       | No  |
| <b>Control DB patch level</b>                               | Yes |
| <b>Control DB release update (RU) level</b>                 | Yes |
| <b>Control DB version</b>                                   | Yes |
| <b>Control maintenance window</b>                           | Yes |
| <b>Preview and Validate Patches for Zero-Regression SLO</b> | No  |

## Additional Information

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

(\*) Capabilities may vary between cloud platforms. Please visit [Oracle Multicloud Capabilities](#) for more detailed information.

(\*\*) Check service documentation for feature availability and limitations

### Compliance Programs Achieved / Planned for Azure

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

### Compliance Programs Achieved / Planned for Google Cloud

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

### Compliance Programs Achieved / Planned for AWS

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

## 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

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

## 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](#)

## Reference Links

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### General

[Multicloud Interconnect](#)

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

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

[Service Level Objectives](#)

[Oracle Database Maximum Availability Architecture](#)

[Oracle Cloud Infrastructure Compliance](#)

[Oracle Database Releases Support Note](#)

[BYOL FAQ](#)

[OCI Locations and Status](#)

### Service Specific

[Blog - Announcing General Availability: Oracle Globally Distributed Exadata Database on Exascale Infrastructure](#)

[Cost Estimator](#)

[Globally Distributed ExaDB-XS Customer References](#)

[Globally Distributed Exadata Database on Exascale Infrastructure Documentation](#)

[Oracle Database Cloud Migration](#)

[Outbound PM: Globally Distributed Database Cloud](#)