



Exadata Database Service on Exascale Infrastructure (ExaDB-XS)

All-in-One Datasheet (Beta) Produced by DBExpert

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 <u>DB Expert Services Taxonomy page</u> to get the latest version of this data sheet and see data sheets for all of the Oracle Cloud Database services.

Deployment

| Database Type | Single Database, Distributed Database, Database Consolidation Pool |
|---------------------------------|--|
| Management Model | Co-managed PaaS |
| Supported Cloud Environments | Oracle Cloud Infrastructure and Oracle Database@Azure |
| SKUs for starting configuration | 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 |
| DB Versions Supported | Oracle 23ai (Long-term release) |
| Hardware Infrastructure | Shared Engineered System |

Usage Models

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

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| Recommended Data Models | Document Store (JSON) Document Store (XML) NoSQL Spatial Text Vector |
|-------------------------------|---|
| Certified Oracle Applications | Oracle APEX Oracle Fusion Middleware 14.1.2.0.0 PeopleSoft PeopleTools 8.62 and later Siebel Enterprise Server 25.2 and later |

Capacity

| Configuration Options | 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 (ECPU) 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. |
|-----------------------|--|
| CPU Range | 16 to 2000 ECPUs |
| Shapes | Oracle Exadata Exascale Infrastructure ECPUs: 0 to 2000 Max DB TB: 1500 |
| CPU scaling | Online |
| Storage scaling | Online |
| Max IOPs | flash 8k: 2.8M read + 1M write (per storage server) |
| Max Throughput | 100 GB/s |
| Max Memory | 1.35TBx32 = 44 TB |

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Availability

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

Functionality Included

| Included Oracle DB Options for license-included service (*) | 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 |
|---|---|
| Included Oracle EM Packs for license-included service (*) | Cloud Management Pack for Oracle Database Data Masking and Subsetting Pack Database Lifecycle Management Pack for Oracle Database Diagnostics Pack Tuning Pack |
| Free Add-Ons (no extra licensing required) | Oracle APEX 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)

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EMEA: Abu Dhabi - AUH, Frankfurt - FRA (A, G), Jeddah - JED, Johannesburg - JNB (A), London - LHR (A, G), Marseille - MRS, Paris - CDG, Zurich - ZRH (G)

LAD: Bogota - BOG, Sao Paulo - GRU (G), Vinhedo - VCP (A)

North America: Ashburn - IAD (A, G), Montreal - YUL (G), Phoenix - PHX (A), 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

EMEA: Germany West Central, Italy North, UK South

LAD: Brazil South

North America: Canada Central, 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 the host | Yes |
|--|-----|
| 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 | No |

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SLO

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

General

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

