





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

#### Overview

Globally Distributed Autonomous Database is a fully automated distributed cloud database that is easy to use, develop with, and manage. Its shared-nothing, sharded architecture is built on top of Oracle Autonomous Database, letting transaction processing and analytics applications benefit from hyperscale performance and scalability as well as extreme availability. Organizations can easily meet data residency requirements and the needs of distributed global users.

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

### **Deployment**

| Database Type                   | Distributed Database   |
|---------------------------------|--|
| Management Model                | Fully Managed PaaS   |
| Supported Cloud Environments    | Oracle Cloud Infrastructure  |
| SKUs for starting configuration | B99593 (ECPU) or B99594 (ECPU BYOL)<br>2* Database Server - X11M - B110627<br>3* Storage Server - X11M - B110629<br>Backup storage -B91628 |
| DB Versions Supported           | Oracle 23ai (Long-term release), Oracle 19c (Long-term release)  |
| Hardware Infrastructure         | Dedicated Engineered System  |

### **Usage Models**

| Recommended Workloads   | Blockchain Data Science / Machine Learning Data and IoT Event Streams Graph Mixed Workload (Transaction + Analytics) Transaction Processing (OLTP) Vector |
|-------------------------|---|
| Recommended Data Models | Document Store (JSON) Document Store (XML) NoSQL Spatial Text   |

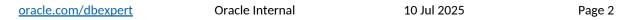
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|                               | Vector      |
|-------------------------------|-------------|
| Certified Oracle Applications | Oracle APEX |

# Capacity

| Configuration Options | Elastic X11M infrastructure configuration shapes range from 2 database and 3 storage servers, up to a total of 32 database and 64 storage servers to achieve the exact ratio of compute to storage required. Each database server provides 720 ECPUs, and each storage server provides 64 TB of database storage (no local backup).  Elastic configuration example 1 is the minimum size elastic configuration with 2 database and 3 storage servers. Elastic configuration example 2 with 8 database and 8 storage servers and elastic configuration example 3 with 2 database and 14 storage servers are example elastic configurations that provide the highest SQL Read IOPS and Bandwidth in a theoretical single rack, respectively. |
|-----------------------|--|
| CPU Range             | 2 to 16128 ECPUs   |
| Shapes                | Exadata Cloud Infrastructure X11M - Elastic Configuration Example 1 ECPUs: 8 to 1520 Max DB TB: 192 Exadata Cloud Infrastructure X11M - Elastic Configuration Example 3 ECPUs: 8 to 1520 Max DB TB: 896 Exadata Cloud Infrastructure X11M - Elastic Configuration with Maximum Storage ECPUs: 8 to 1520 Max DB TB: 4096 Exadata Cloud Infrastructure X11M - Elastic Configuration Example 2 ECPUs: 8 to 6080 Max DB TB: 512 Exadata Cloud Infrastructure X11M - Elastic Configuration with Maximum ECPU ECPUs: 8 to 24320 Max DB TB: 192   |





| CPU scaling     | Online, Auto scale up, Auto scale down              |
|-----------------|---|
| 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                                   |

## Availability

| Nines of availability (may require configuration) | 99.995 SLA (with Autonomous Data Guard) |
|---|---|
| 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 (*) | 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 (functionality provided by service) Data Masking and Subsetting Pack (functionality provided by service) Database Lifecycle Management Pack for Oracle Database (functionality provided by service) Diagnostics Pack Tuning Pack                                |
| Free Add-Ons (no extra licensing required)                  | Eligible target for loading data using Oracle Data Integrator, available on Cloud Marketplace(No license required if ADB is the target. Compute resources are charged.) Managed Oracle REST Data Services (ORDS) for ADB-D Oracle APEX Oracle Analytics Desktop Oracle Cloud Observability and Management |

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| Service (O&M) Oracle Data Safe             |
|--|
|  |
| Oracle Database Actions                    |
| Oracle GoldenGate 1) Limited Use Term      |
| License Promotion and 2) Oracle GoldenGate |
| Database Migration Term (both available on |
| Oracle Cloud Marketplace)                  |
|  |

<sup>\*</sup>Check service documentation for feature availability and limitations

## **Security and Compliance**

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

#### **Compliance Programs Achieved for Oracle Cloud Infrastructure**

Abu Dhabi Information Security Standard (ADISS), C5 Attestation, CSA STAR Level 2, CST Class C, Dubai Electronic Security Center (DESC) Certification, ENS High, EU CoC (DOA Level 2), FedRAMP High - JAB ATO, GSMA SAS-SM, HIPAA, Health Data Hosting (HDS) France, IRAP, ISMAP, ISMS, ISO 20000-1, ISO/IEC 27001, ISO/IEC 27017, ISO/IEC 27018, ISO/IEC 27701:2019, ISO/IEC 9001:2015, MTCS, OSPAR, PCI-DSS, SOC 1, UAE IAR, UK Cyber Essentials Plus

Compliance status for the service may vary across regions. The <u>Compliance Documents service</u> in the OCI console lets users view and download compliance documents and determine current program availability in specific regions. Additional information is available in the <u>Elevated Support Portal</u> (Oracle Internal; VPN required).

#### **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), Singapore West - XSP, Sydney - SYD (G), Tokyo - NRT (A, G)

**EMEA:** Abu Dhabi - AUH, Amsterdam - AMS (A), Dubai - DBX, Frankfurt - FRA (A, G), Jeddah - JED, Jerusalem - MTZ, Johannesburg - JNB (A), London - LHR (A, G), Madrid - MAD (G), Marseille - MRS, Milan - LIN, Newport - CWL, Paris - CDG, Riyadh - RUH, Stockholm - ARN, Zurich - ZRH (G)

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

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

\* 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**

## **Operational Controls**

| Allows installing additional software/agents on the host | No  |
|--|-----|
| Allows installing OS packages                            | No  |
| Allows kernel changes                                    | No  |
| Allows OS runtime changes                                | No  |
| Allows sysdba access                                     | No  |
| Oracle operator access control                           | Yes |
| 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 | Delta Sharing Recipient |

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| 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**

Achieve data residency, availability, and scale with Oracle Globally Distributed Autonomous Database

**Data Management Services Feature Level Roadmaps** 

**Globally Distributed ATP-D Customer References** 

**Globally Distributed Autonomous Database** 

Globally Distributed Autonomous Database (Globally Distributed ADB) Sales Resources





## The Responsibility Model for Oracle Autonomous Database

| Task  | Who      | Details   |
|---|----------|---|
| Provisioning Autonomous<br>Database resources | Oracle   | Oracle is responsible for provisioning resources. You the customer are responsible for initiating provisioning requests that specify configuration characteristics of the resource being provisioned.   |
| Backing up databases                          | Oracle   | Oracle is responsible for backing up databases on a daily basis and for retaining database backups for 60 days.   |
| Recovering a database                         | Oracle   | Oracle is responsible for recovering databases. You the customer are responsible for initiating a recovery request that specifies which existing backup to recover to.  |
| Patching and upgrading                        | Oracle   | Oracle is responsible for patching and upgrading all Autonomous Database resources.   |
| Scaling                                       | Oracle   | Oracle is responsible for scaling Autonomous<br>Databases. You the customer are responsible for<br>initiating scaling requests.   |
| Monitoring service health                     | Oracle   | Oracle is responsible for monitoring the health of<br>Autonomous Database resources and for<br>ensuring their availability as per published<br>guidelines.  |
| Monitoring application health and performance | Customer | You the customer are responsible for monitoring the health and performance of your applications at all levels. This responsibility includes monitoring the performance of the database queries and updates your applications perform.   |
| Application security                          | Customer | You the customer are responsible for the security of your applications at all levels. This responsibility includes Cloud user access to Autonomous Database resources, network access to these resources, and access to database data.  Oracle ensures that data stored in Autonomous Databases is encrypted and ensures that connections to Autonomous Databases require TLS 1.2 encryption and wallet-based authentication. |
| Auditing                                      | Oracle   | Oracle is responsible for logging REST API calls made to Autonomous Database resources and for making these logs available to you the customer for auditing purposes.   |
|   |          | Oracle is responsible for ensuring that<br>Autonomous Databases are provisioned with<br>Oracle Database auditing features enabled. You<br>the customer are responsible for using these<br>features to audit database usage.   |
| Alerts and Notifications                      | Oracle   | Oracle is responsible for providing an alert and notification feature for service events. You the customer are responsible for monitoring any database alerts that may be of interest.  |

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