Oracle Cloud Infrastructure Database with PostgreSQL

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

Overview

Oracle's innovative managed PostgreSQL service, OCI Database with PostgreSQL, combines cutting-edge open source technology with the robustness and speed of Oracle Cloud Infrastructure (OCI). Oracle harnesses the strengths of both to offer higher performance with OCI Database Optimized Storage.

Visit the DB Expert Services Taxonomy page 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
Management Model	Co-managed PaaS
Supported Cloud Environments	Oracle Cloud Infrastructure
SKUs for starting configuration	B99060 (OCPU) B99062 (DB storage) B91961 (backup storage)
DB Versions Supported	PostgreSQL 14 or 15
Hardware Infrastructure	Shared General Purpose

Usage Models

Recommended Workloads	Analytics Data Warehouse / Data Mart Mixed Workload (Transaction + Analytics) Transaction Processing (OLTP)
Recommended Data Models	Document Store (JSON) Spatial
Certified Oracle Applications	

Capacity

Configuration Options	An OCI Database with PostgreSQL database system uses a shape, or template, to configure hardware options, such as the

	number of OCPUs, the amount of memory, and other resources that are allocated to an instance, or database node. When creating a database system or a configuration, you specify its shape. If you evaluate costs or peak workloads after creating the database system, and its initial shape doesn't meet your requirements, you can update the shape of the database system. You can select flexible shapes or fixed shapes for a database system.
CPU Range	2 to 64 OCPUs
Shapes	PostgreSQL.VM.Standard.E4.Flex.2.32GB OCPUs: 2 to 2 Max DB TB: 32 PostgreSQL.VM.Standard3.Flex.2.32GB OCPUs: 2 to 2 Max DB TB: 32 PostgreSQL.VM.Standard.E4.Flex.4.64GB OCPUs: 4 to 4 Max DB TB: 32 PostgreSQL.VM.Standard3.Flex.4.64GB OCPUs: 4 to 4 Max DB TB: 32 PostgreSQL.VM.Standard.E4.Flex.8.128GB OCPUs: 8 to 8 Max DB TB: 32 PostgreSQL.VM.Standard3.Flex.8.128GB OCPUs: 8 to 8 Max DB TB: 32 PostgreSQL.VM.Standard.E4.Flex.16.256GB OCPUs: 16 to 16 Max DB TB: 32 PostgreSQL.VM.Standard3.Flex.16.256GB OCPUs: 16 to 16 Max DB TB: 32 PostgreSQL.VM.Standard.E4.Flex.32.512GB OCPUs: 32 to 32 Max DB TB: 32 PostgreSQL.VM.Standard3.Flex.32.512GB OCPUs: 32 to 32 Max DB TB: 32 PostgreSQL.VM.Standard3.Flex OCPUs: 2 to 32

	Max DB TB: 32 PostgreSQL.VM.Standard.E4.Flex.64.1024GB OCPUs: 64 to 64 Max DB TB: 32 PostgreSQL.VM.Standard.E4.Flex OCPUs: 2 to 64 Max DB TB: 32
CPU scaling	Offline
Storage scaling	Online, Auto scale up
Max IOPs	750K
Max Throughput	40 GBPs (Fixed Shapes)
Max Memory	64 GB per OCPU, up to 1024 GB total

Availability

Nines of availability (may require configuration)	99.99 SLA with two or more nodes. 99.9 SLA for single-node deployment.
Oracle DB Maximum Availability Architecture medals (for OCI / Cloud@Customer deployments)	Not MAA certified
Automated backups max retention	up to 35 days
Long-term backup retention (up to 10 years)	Yes

Functionality Included

Included Oracle DB Options for license-included service (*)	N/A
Included Oracle EM Packs for license-included service (*)	N/A
Free Add-Ons (no extra licensing required)	

*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), 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, Stockholm - ARN, Zurich - ZRH (G)

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

North America: Ashburn - IAD (A, G), Chicago - ORD, 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

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	Yes
Oracle operator access control	N/A
Control DB patch level	No
Control DB release update (RU) level	No
Control DB version	Yes
Control maintenance window	Yes
Preview and Validate Patches for Zero-Regression SLO	No

Additional Information

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

Reference Links

General

Oracle PaaS and IaaS Universal Credits Service Descriptions
Service Level Objectives
Oracle Cloud Infrastructure Compliance
BYOL FAQ
OCI Locations and Status

Service Specific

Cost Estimator
PostgreSQL Customer References
PostgreSQL homepage on o.com