Latest addition to OCI portfolio



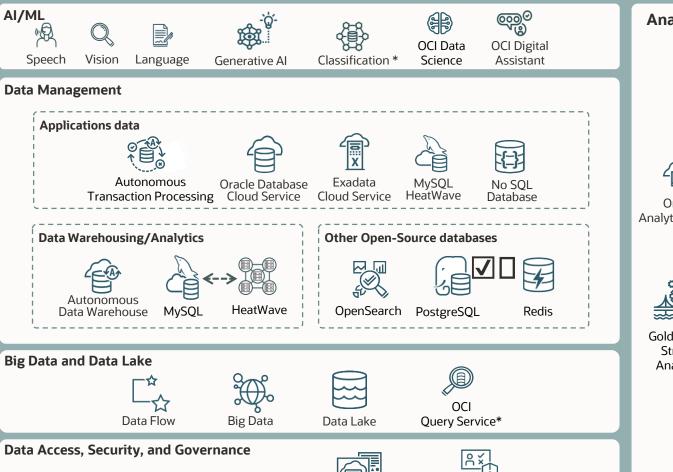




Oracle Data Platform: A complete suite of services

Oracle Data Platform

AI/ML Integration **Data Sources** Vision Language Generative Al Classification * (::>= **Data Management Enterprise Data** OCI Data **Applications data** & Applications Integration Autonomous Exadata Oracle Database Transaction Processing Cloud Service Cloud Service CRM ERP OIC (Application **Enterprise SaaS** Data Warehousing/Analytics Integration) Applications Autonomous OpenSearch Data Warehouse HeatWave GoldenGate (RT Data Social IoT Replication) Media **Big Data and Data Lake** Big Data Data Flow Data Lake OCI



Data Catalog

Identity and Access

Management







Streaming

Digital Assets

OCI is committed to offer the widest choice to our customers

PostgreSQL is the latest addition to existing open source compatible and/or managed services on OCI













Native integrations with the dev tools you're used to





















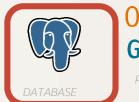




















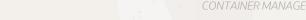






















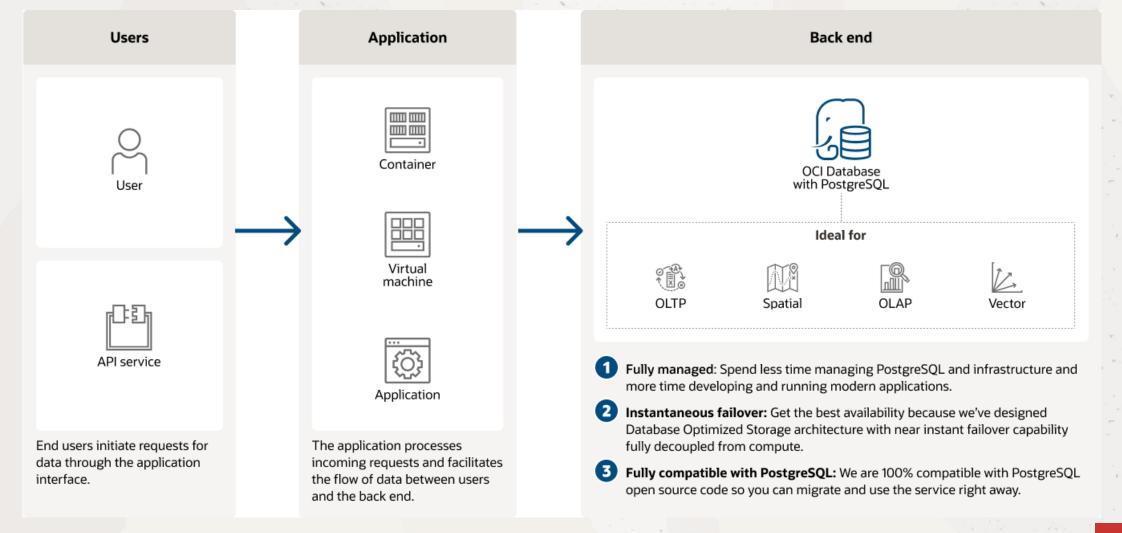
PostgreSQL - one of the most advanced open source databases

DB Engines ranking:

	Rank				Score		
Nov 2023	Oct 2023	Nov 2022	DBMS	Database Model	Nov 2023	Oct 2023	Nov 2022
1.	1.	1.	Oracle 😷	Relational, Multi-model 👔	1277.03	+15.61	+35.34
2.	2.	2.	MySQL #	Relational, Multi-model 👔	1115.24	-18.07	-90.30
3.	3.	3.	Microsoft SQL Server ☐	Relational, Multi-model 👔	911.42	+14.54	-1.09
4.	4.	4.	PostgreSQL [1]	Relational, Multi-model 👔	636.86	-1.96	+13.70
5.	5.	5.	MongoDB 🚹	Document, Multi-model 👔	428.55	-2.87	-49.35
6.	6.	6.	Redis 😷	Key-value, Multi-model 👔	160.02	-2.95	-22.03
7.	7.	7.	Elasticsearch	Search engine, Multi-model 👔	139.62	+2.48	-10.70
8.	8.	8.	IBM Db2	Relational, Multi-model 👔	136.00	+1.13	-13.56
9.	9.	1 0.	SQLite [1	Relational	124.58	-0.56	-10.05
10.	10.	4 9.	Microsoft Access	Relational	124.49	+0.18	-10.53



A fully managed service



A fully managed service

60%
Less costly than Amazon Aurora with PostgreSQL¹

3X

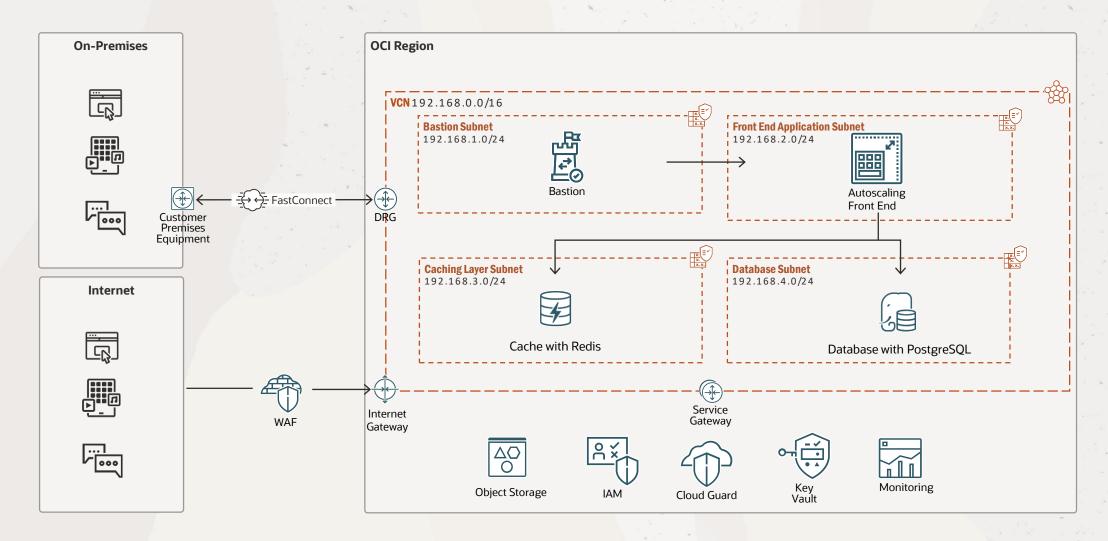
Faster than a self-managed cluster²

99.99%

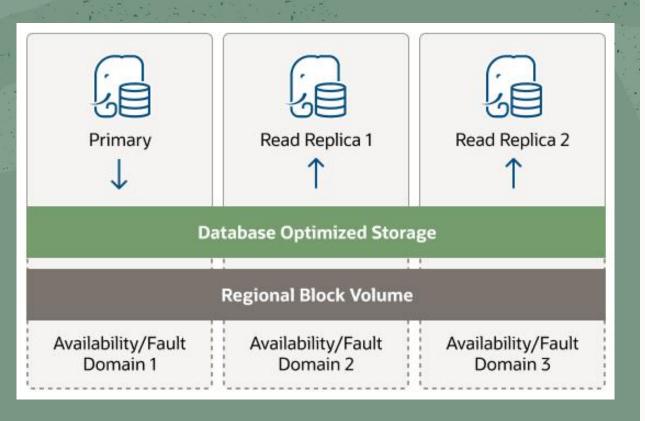
Availability SLA



Reference Architecture



OCI Database Optimized Storage An Oracle Innovation



- Dynamic scaling with usage
- Pay only for what you use (scaling is zero downtime)
- Distributed across multiple Availability Domains for 0 RPO and fast recovery

Features available now

Features	Availability				
Operations					
Fully managed	⋞				
Storage Dynamic scaling	⋞				
Backups - manual and automatic	⋞				
Managed maintenance and patching	⋞				
Monitoring and metrics	❖				
Notifications and alarms	≪				
Terraform support	≪				
Automatic minor upgrades	≪				
HA / DR					
Multi availability-domain data replication	≪				
RTO	< 2 min (multi node) < 20 min (single node)				
RPO	0				
Automatic/Manual failover	≪				
Security					
End-to-end encryption	⋞				
Automatic security patching	⋞				
Development					
Version Support - Postgres 14	❖				
Stored procedure languages	≪				
Extensions – btree_gin; btree_gist; citext; cube; dict_int; fuzzystrmatch; hstore; intarray; isn; lo; ltree; pg_trgm; pgcrypto; plpgsql; pg_stat_statements;					
seg; tablefunc; tcn; tsm_system_rows; tsm_system_time; unaccent	≪				
Limits: 32 TB storage, 1024 cores, 16 TiB RAM	≪				

Over 20 Extension Supported and more on their way

See: docs.oracle.com/iaas/Content/postgresql/

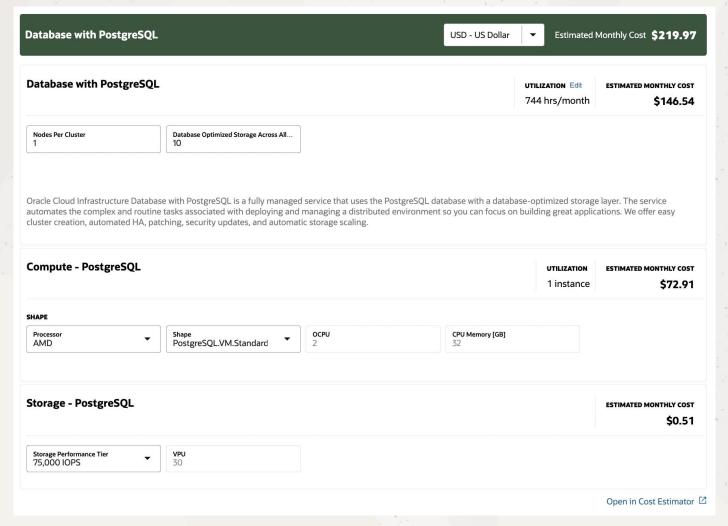
- btree_gin
- btree_gist
- citext
- cube
- dict_int
- fuzzystrmatch
- hstore
- intarray
- isn
- lc
- Itree

- pg_trgm
- pgcrypto
- plpgsql
- pg_stat_statements
- seg
- tablefunc
- tcn
- tsm_system_rows
- tsm_system_time
- unaccent



Among the best price/performance ratio on the market

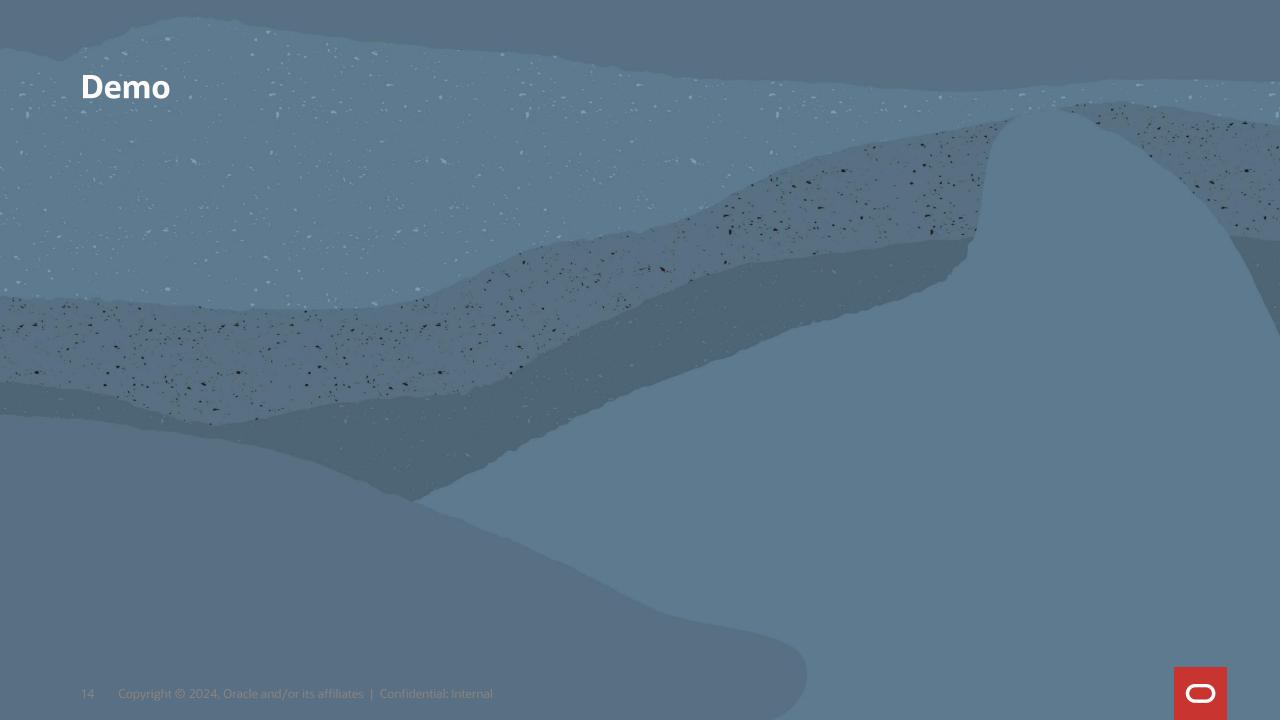
See: oracle.com/cloud/postgresql/pricing/





Features in the roadmap

Category	Features
Versions	v13, v15, v12, v16
Operation	Autonomous configuration
	Custom IP endpoints
HA / DR	Point-in-time recovery
•	Cross-region replication
Extensions	PotgresGIS TimescaleDB
	Other extensions: uuid-ossp, dblink, file_fdw_program, pg_buffercache, pg_partman, pg_trgm, pgcrypto, pglogical, Plpgsql, pg_catalog, plpython2u, postgres_fdw, pgvector
Security	BYOK
Migration	Manual/Migration service
Dev	Connection Pooling





Fully managed



Unique price/perf ratio



Versatile and Extensible database



Easy-to-Use service

Meets you where you are



Thank You!

__



Cloud Architect, Oracle Latin America



Appendix



Walk through the improved design

Confidence in the technology

ORACLE CLOUD
Infrastructure

FIRST PRINCIPLES

Optimizing PostgreSQL for the cloud



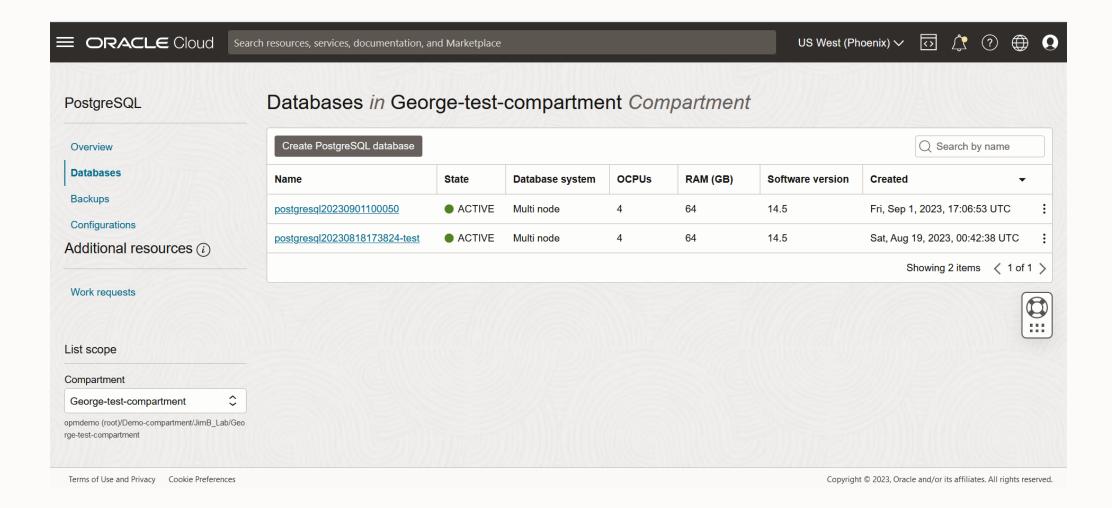
First Principles Architectural Breakdown

- Gain Peace of Mind:
 Walk through Oracle Database with PostgreSQL's design piece-by-piece with the First Principles
 Series
- Straight from the Architects:
 In-depth specs from the designers about the Optimized Database Storage that offloads replication functions for zero RPO and minimal cluster management

Read the Blog

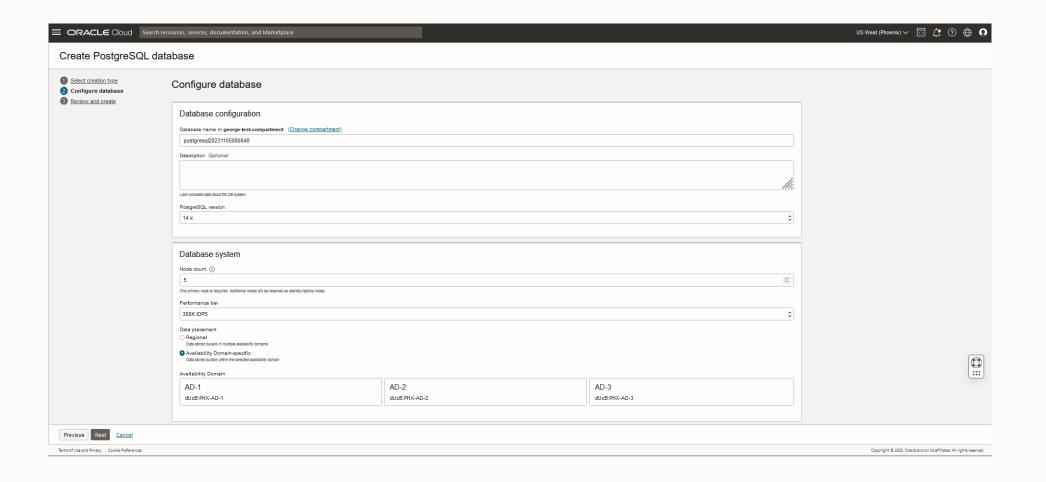


User Experience - PostgreSQL clusters list view



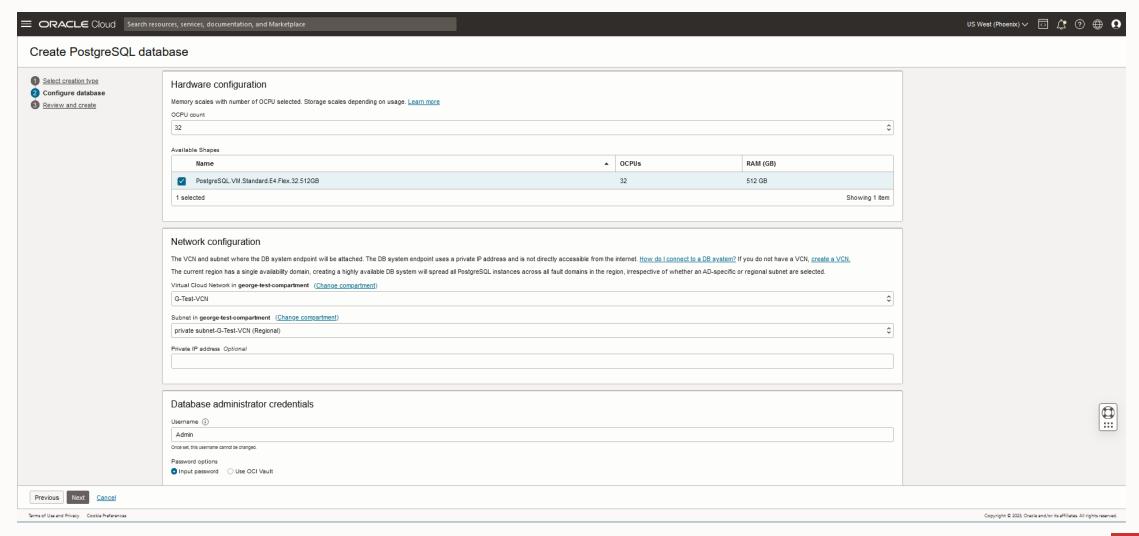


User Experience - Create multi-node PostgreSQL cluster





User Experience - Create multi-node PostgreSQL cluster cont.





User Experience - Detailed view with Read replica

