ORACLE | ⧖ Volumez

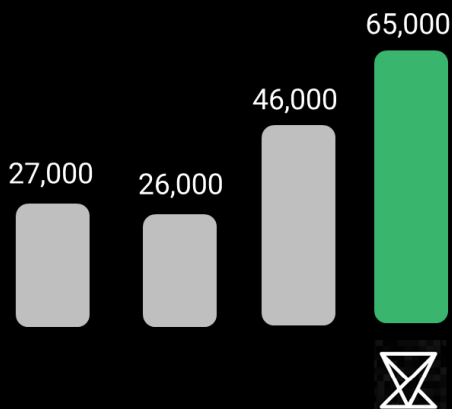# Self-managed PostgreSQL on OCI with Volumez

Migrating, running, and scaling relational databases like PostgreSQL on Oracle Cloud Infrastructure (OCI) can be complex and costly. With Volumez' cloud-aware Data Infrastructure as a Service (DIaaS) platform on OCI, we achieved 65K transactions per second (TPS) or 3X the performance at one-third the latency and up to 75% cost savings versus other fully managed database services.

Designed as an alternative to expensive managed disks, Volumez offers an open, Linux-based control plane outside of the customer's VCN that provides unlimited scalability and agility with new economics. Self-managed PostgreSQL on OCI with Volumez enables organizations to run any data-intensive workload while achieving guaranteed extreme performance, ultra-low latency, and enterprise-grade data resiliency for mission-critical applications.
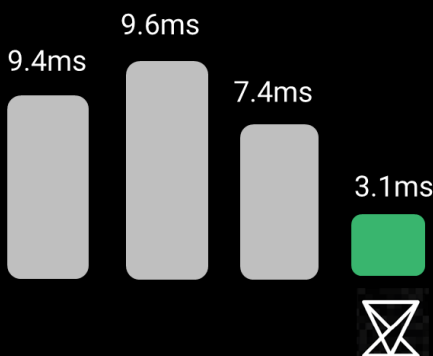
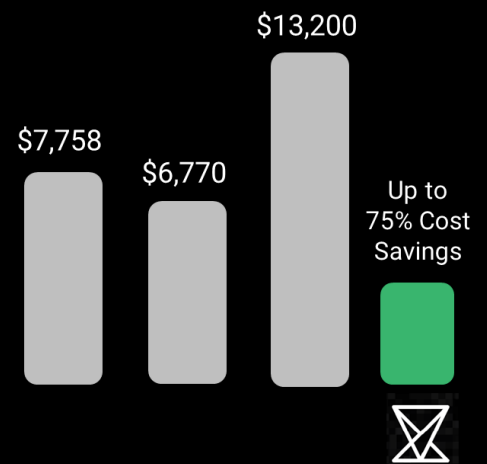## Performance Benchmarking – PostgreSQL DB Testing
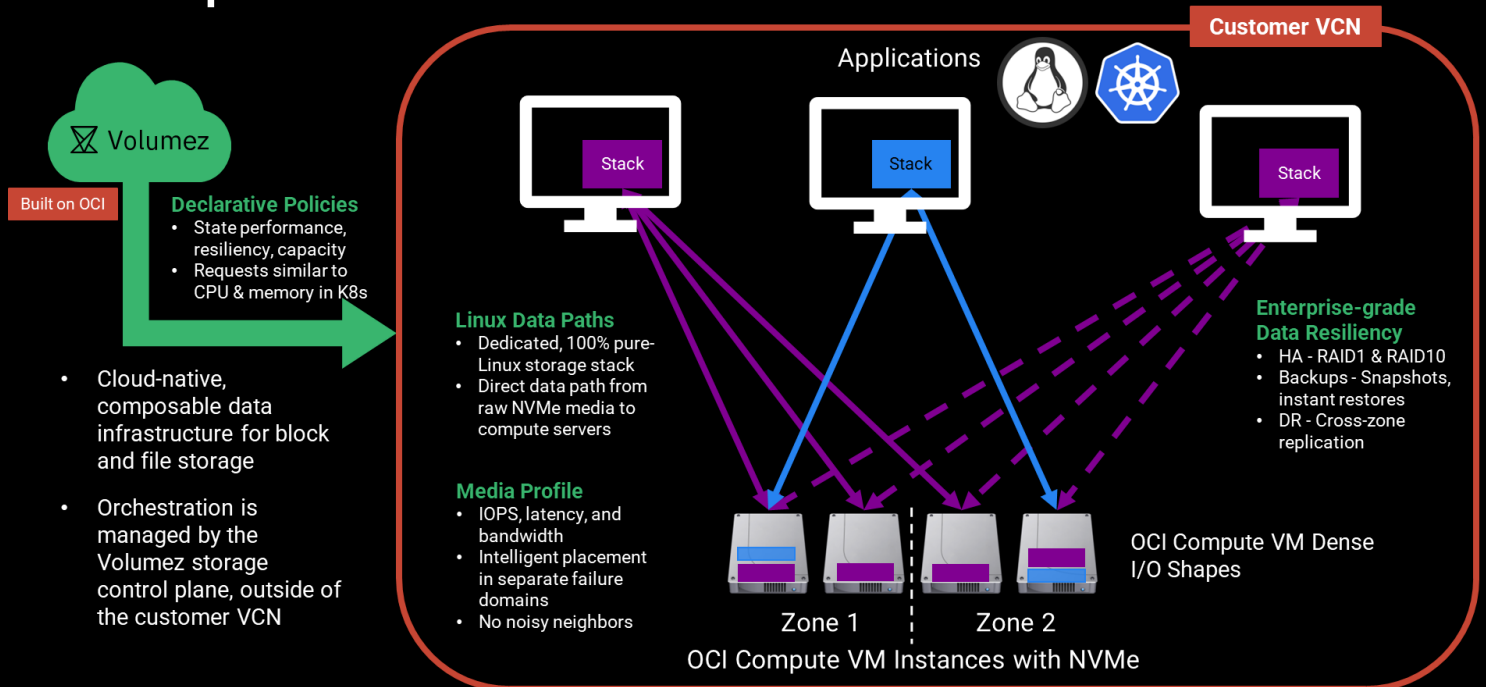
Transactions Per Second (TPS)

27,000
26,000
46,000
65,000 ⧖

Latency (Microseconds)

9.4ms
9.6ms
7.4ms
3.1ms ⧖

Monthly Cost (Storage)

$7,758
$6,770
$13,200
Up to 75% Cost Savings ⧖

Composable Data Infrastructure

- Cloud-native, composable data infrastructure for block and file storage

- Orchestration is managed by the Volumez storage control plane, outside of the customer VCN

"This combination of performance, resilience, and cost efficiency makes the Volumez composability service an attractive option for organizations looking to optimize their PostgreSQL database deployments in the Oracle Cloud. Being able to easily compose and orchestrate OCI resources can enhance scalability and facilitate managing multiple database instances effectively."

Rasmus Ekman, Vice President of Cloud Engineering, Oracle

Innovate Faster by Removing Storage Bottlenecks

Volumez makes the enterprise data layer as agile, efficient, and competitive as the compute layer. Our cloud-aware DIaaS platform composes data paths targeting instance-based workloads and Kubernetes where incumbent storage is the bottleneck.

Volumez allows organizations to access the exceptional price-performance of OCI Compute VM Dense I/O Shapes by composing a pure Linux data path on application servers that store data directly on slices of Dense I/O media. Volumez recommends VM.DenseIO.E5 series for the media nodes.

Volumez provides enterprise-grade data services including snapshots, encryption, and multi-zone resilience without the overhead of OCI Block Volumes. Attaching a volume to an instance requires simply choosing the volume, node name (instance), and mount point.

Let Your Data Speak Volumez

For more information, please contact us at sales@volumez.com

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