

Oracle Database and Lightbits on AWS Use Case



OVERVIEW OF ORACLE WORKLOADS

Oracle Database is commonly used for running online transaction processing (OLTP), data warehousing (DW) and mixed workloads. More of these workloads are moving to cloud services like AWS and away from on-prem installations—gaining benefits such as increased security, better performance and lower costs. IO-intensive database workloads, like Oracle, are well-suited to migrate to the public cloud, given the massive storage capacities and compute capabilities available there. But, while Oracle’s requirement for compute and memory are easily met on AWS, the performance requirement for Tier1 and 2 applications using Oracle are a challenge. Provisioning native cloud storage can be complex and costly for these workloads and may not deliver the IOPS or latencies required to run these IO-intensive applications.

With the cloud, Oracle users can take advantage of modern storage architecture that can manage the volume, velocity and variety of data generated throughout an enterprise. Cloud storage offers a level of flexibility and accessibility that on-premises storage can’t match.

WHY RUNNING ORACLE DB ON AWS IS BETTER WITH LIGHTBITS

Oracle DB on AWS with Lightbits offers the best of both worlds. Experience the performance and reliability of AWS with the enterprise features and blazing fast speed of Lightbits running on storage optimized EC2 instances.

Oracle operations are typically IOPS intensive and commonly run on AWS Elastic Block Storage (EBS) io2 volumes. Using Lightbits as the storage platform takes AWS performance to the next level with high-performance, low latency storage. Lightbits provides the ability to run containerized or virtualized environments with high reliability and high levels of accessibility.

Using Lightbits on AWS can transform Oracle DB performance with superior features and high performance at dramatically lower costs than cloud provider native block storage solutions.

Benefits

Blazing fast performance.
Delivers near equivalent performance to local SSD drives ensuring SLAs are met or exceeded

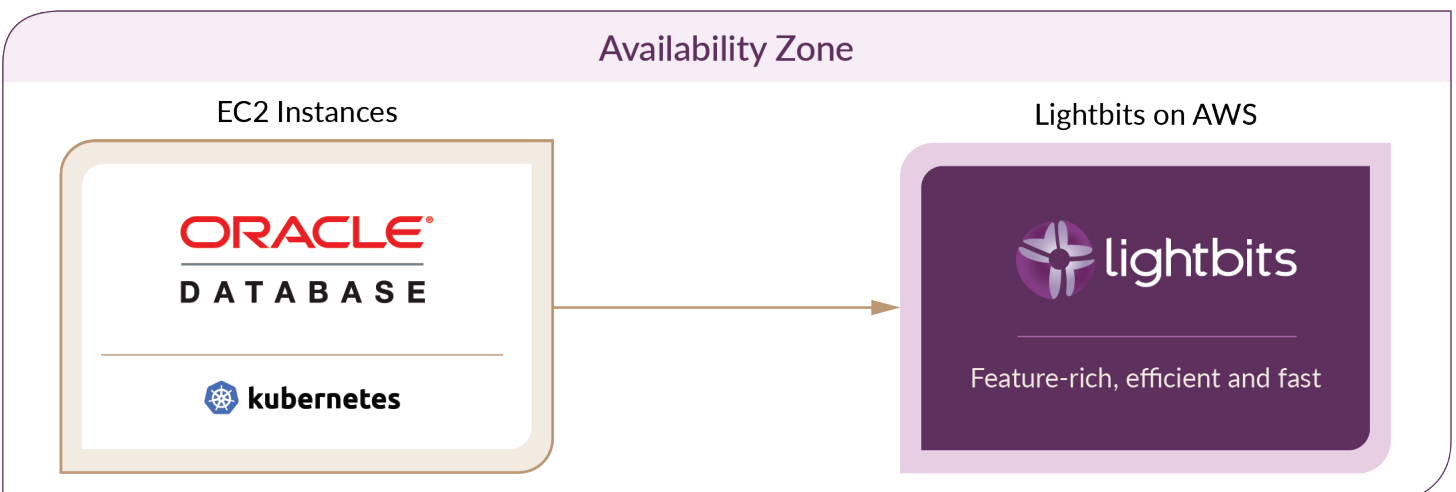
Lower TCO

Dramatically simplifies infrastructure management

Flexible, supports hybrid cloud implementations

Easy to set up, operate, and scale Oracle DB deployments in the cloud

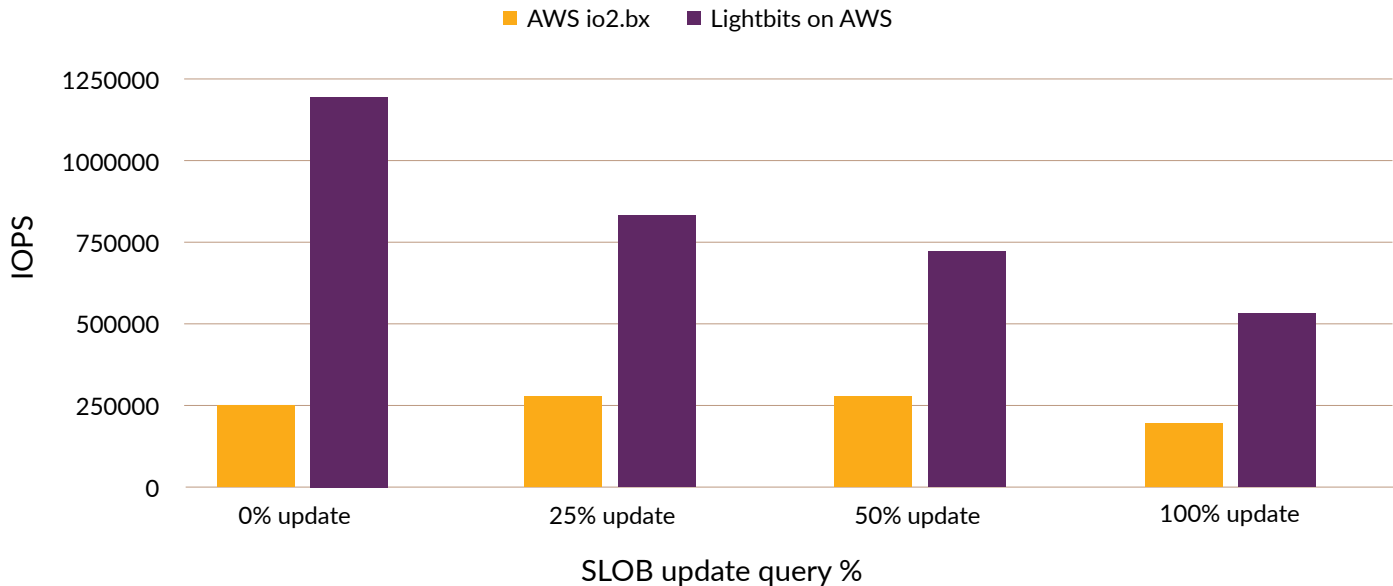
Enterprise features



THE BENEFITS OF ORACLE ON AWS WITH LIGHTBITS

Lightbits makes Oracle on AWS better than ever with enterprise data services and cost-effective performance to support intensive database and application usage. The enterprise features such as unlimited snapshots and clones, thin provisioning and data reduction technology deliver a better Oracle experience.

Oracle Using Lightbits vs AWS io2.bx



Performance comparison of native cloud storage versus Lightbits on AWS using 3 x i4i.metal instances running the SLOB benchmark. Higher IOPS is better.

Lightbits on AWS will transform Oracle performance and costs through these key benefits:

Cost reduction

Oracle on Lightbits using NVMe/TCP volumes cost much less than EBS io2 volumes for a given workload while supporting high Oracle Transactions Per Section (TPS).

Pay per cluster/ unlimited IOPS

Pay per Lightbits cluster (EC2 instances) instead of provisioned IOPS and EBS volumes to right-size instances. Scale for TPS on the fly for unlimited IOPS.

Flexible options for Oracle instances

High IOPS/low latency volumes can support higher Oracle TPS, so there's no need to pay for higher TPS performance on EBS volumes.

With Oracle on AWS using Lightbits, you can support mission-critical applications with a lower total cost of ownership and higher return on investment with high-performance and built-in enterprise data services. Pay only for the performance you need with dynamic storage and effectively spend less time on management and remediation activities.

Get your 30-day free trial of Lightbits on AWS today.

For more information go to www.lightbitslabs.com/aws

To get started using Lightbits on AWS, go to the AWS Marketplace, or contact info@lightbitslabs.com