

# Cirata and Oracle

## Enabling a modern data architecture

The modern business landscape is ruled by data. Analytics and AI are now essential for driving key business transformation. In order to make effective use of their valuable data assets companies are modernizing their data architecture, which means bringing their business-critical data to work in the cloud.

Oracle offers a variety of cloud services to enable customers to implement a modern data architecture. Some key services include Oracle Cloud Object Storage, Oracle Lakehouse, and Oracle Big Data Cloud Service.

### Data migration business risks

While customers have benefited from the performance, flexibility, and cost savings offered by Oracle's Cloud services, many enterprises have struggled with migration of the on-premises data to the cloud. Cloud data migrations can be fraught with business risks including disruption of critical business operations, risk of data loss, and overall project complexities that often result in cost overruns or failed initiatives.

According to Bloor Research, more than 80% of data migration projects run over time and over budget. This is despite the fact that nearly 70% of enterprises have started moving data to the cloud as part of their digital transformation. Migrating large data volumes with traditional approaches, such as transfer devices or DistCp (distributed copy), requires disrupting the operation of on-premises applications and doesn't cater to data that is modified or created during migration. Reconciliation at scale is costly and does not guarantee a completely consistent data outcome. The overhead required to achieve non-disruptive, no-downtime big data migration is significant due to repeated scans, systems out of sync and manual intervention for anticipated failures and interruptions.

Organizations need data migration and replication solutions that reduce and eliminate these business risks. They need solutions that let them maintain business operations, are easy to use, ensure a complete and continuous migration with zero data loss, and which maintain consistency across distributed environments. Cirata provides these solutions.

### Oracle Cloud Object Storage

Oracle Cloud Object Storage enables customers to securely store any type of data in its native format. With built-in redundancy, Oracle Cloud Object Storage is ideal for building modern applications that require scale and flexibility, as it can be used to consolidate multiple data sources for analytics, backup, or archive purposes.

### Oracle Big Data Service

Oracle Big Data Service is a fully managed, automated cloud service that provides enterprises with a cost-effective Hadoop environment. Customers easily create secure and scalable Hadoop-based data lakes that can quickly process large amounts of data.

### Oracle Lakehouse

A data lakehouse is a modern, open architecture that enables you to store, understand, and analyze all your data. It combines the power and richness of data warehouses with the breadth and flexibility of the most popular open-source data technologies you use today. The Oracle Lakehouse is built from the ground up on Oracle Cloud Infrastructure (OCI) with the latest AI frameworks and prebuilt AI services.



## Cirata Data Migrator

Data Migrator is an automated, scalable, and high-performance data integration solution that simplifies making your data available in and immediately usable across on-premises environments and the Oracle cloud.

Data Migrator is non-intrusive and requires no custom code development or changes to existing applications, cluster, node configuration or operation. Data transfer of any scale can begin immediately and be performed while the source data is under active change without requiring any production system downtime or business disruption, and with zero risk of data loss.

### Key benefits

Automated data transfer at any scale with zero business disruption, minimized risk, and best time-to-value.

#### Business continuity

- Automated data transfer of changing data
- No downtime or business disruption
- Immediate data availability

#### Scalability

- Supports data transfer at any scale
- Horizontal scaling with multiple transfer agents
- Maximizes use of available network bandwidth

#### Cost and risk avoidance

- Fully automated data transfer
- No custom coding nor application changes
- Minimizes need for IT resource involvement

## Use cases

### Data modernization

Shift away from legacy data platforms and siloed or underutilized datasets to modern data technologies in the Oracle cloud that enable advanced analytics, AI, faster decision making, and more flexible and elastic storage and compute to unlock the full value from the data.

### Disaster recovery

Maintain a current replica of actively used data in another location (either cloud or on-premises) for failover purposes in case the primary production environment becomes unavailable. Providing the ability to replicate the data in near-real-time is critical to meet any near-zero RTO (recovery time objective) and RPO (recovery point objective) requirements.

### Hybrid and multi-region

Implement flexible architectures that maintain data in hybrid environments, which can include on-premises, cloud, and multi-region deployments. As a result, organizations can leverage best in-class capabilities, improve availability and increase regional coverage.