The promise of cloud computing and the ability for enterprises to generate meaningful insights from massive data sets has led to an enormous interest in deploying big data applications to the cloud. However, companies often have challenges in identifying the optimal way in which to migrate existing applications - whether running on-premise or in another cloud environment.

Looking to decommission your data center(s) or just take advantage of the flexibility of the cloud? Imanis Data provides a compelling software solution that covers the full gamut of cloud migration use cases associated with your Hadoop and NoSQL applications. Imanis Data provides an agentless, incremental-forever cloud migration approach for Hadoop (Hive, HBase, HDFS), NoSQL (Cassandra, Couchbase and MongoDB), and HP Vertica data stores.

Cloud Migration Use Cases

Whether you're moving all or part of your data from on-prem to the cloud, migrating from one cloud to another, or adding cloud backup and storage, Imanis Data can help.

On-prem to Cloud or Hybrid
Imanis Data provides a software defined solution to migrate data from your data center to the cloud. Our incremental-forever approach minimizes data movement while ensuring uptime.

Cloud to Cloud
Imanis Data can migrate, synchronize and replicate data from one public/private clouds to another.

Region-to-Region Migration
Imanis Data can sample and mask data sets for intra-cloud migration or replication, ensuring compliance, data privacy and minimizing storage and operating costs.

Test Data Workloads in the Cloud
Imanis Data supports rapid application iteration by enabling rapid sampling, filtering, and data masking of production data sets for non-production uses.

Disaster Recovery in the Cloud
Imanis Data is a highly cost-effective disaster recovery solution. The data can be stored in a different region from the production region.
KEY FEATURES & BENEFITS

Integrates with Major Cloud Providers  No matter which cloud provider you choose, Imanis Data has you covered. Imanis Data provides deep integration with all the major cloud providers, Amazon Web Services, Microsoft Azure and Google Cloud. With support for tiered cloud storage options, a petabyte-scale architecture and significant cost savings from block-level deduplication and compression, Imanis Data is a natural fit for your cloud strategy.

Provides Application-Aware Data Migration  Imanis Data has developed “application aware” software that not only migrates the data to the cloud, but also incorporates metadata such as file/directory attributes and table/database schemas. This essential information is retained during the cloud migration process to ensure data consistency.

Reduces Application Downtime  This is a critical business requirement for many of the data migration use cases described earlier. While the source cluster is running, data can be transferred incrementally to the target cluster. When it is time to switch to the target cluster, user access to the source cluster can be disabled and the final incremental transfer can be performed, significantly reducing downtime.

Ensures Data Consistency  Imanis Data software is application aware and supports Cassandra, Vertica, MongoDB, Hive, HBase, Spark, Couchbase etc. As a result, Imanis Data software migrates both the data objects (databases, tables, partitions, etc.) but also the associated metadata (schema) and ensures that the data and metadata are synchronized so the migrated data is consistent.

Elegantly Handles Network Failures  Network reliability is often a concern when connecting to public clouds. Connectivity may be lost occasionally, response times may be longer than normal at times. Imanis Data handles these situations by supporting automated retries of failed migrations without requiring any manual intervention.

Enables Faster Migration  Imanis Data is a distributed, scale-out architecture that allows migrations to be performed in parallel. By easily adjusting the degree of parallelism, migrations can be performed much faster than traditional methods in use today.

Optimizes Data Storage Costs  By migrating only the necessary data to the right storage technology, organizations can significantly reduce storage costs during the migration process. Imanis Data software allows selection of specific database objects for migration or sampling and filtering data. Since Imanis Data is storage agnostic, migration to lower cost cloud storage is also possible.

Meets Compliance Needs  Secure data using the Imanis Data consistent and irreversible masking capability to ensure that confidential data does not proliferate from production to non-production environments.

Eliminates Management Complexity with Agentless Architecture  Imanis Data does not require any agents or software to be installed on the production or destination nodes, reducing management overhead.

Please contact us for more information at info@imanisdata.com or visit us at www.imanisdata.com.