![ahana - creating possibilities logo]

# PARKING THE UNUSED DATA FROM ON-PREM TO CLOUD INFRASTRUCTURE

One of Ahana's clients, well-known life-insurance company was facing a challenge with the archival and parking of the unused data. The performance of the on-prem database of the life insurance company was severely affected because of the size of the database. Thus, Ahana's DB Team helped to perform extract, transform, and load for the historical data from On-prem Database to the Cloud Database platform to reduce the size of the On-prem database, for better performance and less query time. Since, the customer is one of our existing clients and, we are associated with them for years, as a choice of trust, successful delivery, and timely execution, they approached Ahana for seamless services and successful ETL.

## Client Profile

The client are well-known Life Insurance issuers in India. The first insurance company to be listed in the Indian stock market, namely the Bombay Stock Exchange and National Stock Exchange. The company was founded in the year 2000, headquartered in Mumbai, India, and is involved in the life insurance and asset management business for more than 20 years with its presence in India, recently awarded as the "Life Insurer of The Year", "Winner - Technology Champion of the Year – Life Insurance", and "ET Brand Equity Kaleido Awards 2022" and many more. The company's Support Tech Centers are a testament to the organization's commitment to innovation, technology, and seamless customer experience.

## The Challenge

Since the company got established 20 years ago, they have accumulated a huge amount of data which is historical and unused. As the data was growing on-prem SAP IQ at AIX OS platform and they were not using it on a day-to-day basis, they decided to shift the data from on-premises to cloud platform such that, they can avail data as and when required for audit trails for 15-20 days.

The company already had an AWS cloud server and with the existing SAP IQ on-prem database, they wanted to extract, transform, and load the unused and historical data on the AWS cloud Server. Since the client-company is more focused on the development of business, they rely mostly on Ahana for their Infra managed services.

Earlier the client company was taking support from a different vendor and found it unsatisfactory. Ahana, fulfilled the need of the hour and our experienced team provided 24*7 support for the upgradation and migration.

## Optimum Performance post-ETL

Earlier the whole database SAP IQ was located on-premises; since it takes a lot of effort to maintain an on-premises database system and migrating to a cloud deployment provides the opportunity to offload a lot of critical, but time-consuming administration and maintenance tasks, to the cloud service. It then frees up the database team to focus more time on higher-value database development activities.

The lift and shift of the unused data from the on-prem SAP IQ Server got free up for the new data and increased the performance by more than 50%. The used data was archived in AWS EC2 on the cloud.
The purpose of the Archival database was to reduce the size of the on-prem production database and create a new database on AWS cloud environment EC2 instance which was the first of any kind to achieve optimum performance from the database.

## Ease of Provisioning

Provisioning a new database in an on-premises environment is never a simple task. Even if enterprises have their software licenses already available but have to go through the hardware procurement process. And the hardware procurement process involves getting multiple quotes from vendors, waiting for delivery, and waiting for the hardware to be set up. The overall process takes a few months and depending on the hardware refresh cycle, and it has to be repeated every 3-5 years. Also, maintenance cost, and servicing cost is an add-on to the whole engagement and requires too much of human involvement, with increased chances of damage, data loss, and corruption of data post installation. Since the Connectivity form On-prem to AWS EC2 instance (on -cloud) is evaluated, plus client company already had a running AWS database server, the frequency of data migration and purging of the data for On-prem database was seamless and provisioning got easy.

SAP IQ database replica was created on AWS Linux Platform with the same schema as SAP IQ database on premises on AIX Unix OS platform. The connectivity was tested by our team from
On-prem host. . The Application was provided with the required access to validate the data before the data was purged from the On-prem database. The data was purged from On-prem database after taking a full backup of the SAP IQ database to make sure no data loss is reported in future. More than **15TB of data** was extracted and uploaded to the AWS EC2 SAP IQ Instance without any data damage or loss.

## Hassle – Free Data Extraction, Data Transformation and Load

In the AWS platform, an SAP IQ database server instance was created post replication of the structure and schema of the SAP IQ on-prem database server. With the same structure and schema, the data extracted was parked in AWS EC2 storage without any loss or corruption and thus was loaded into the SAP IQ database server by Ahana's DB team. Further during testing the data was accessible on AWS EC2 storage with the SAP IQ database on cloud. Thus, Ahana database team performed the cross-platform ETL from AIX Unix Host to Linux environment in AWS platform.

## The Impact

On-prem SAP IQ database was reduced significantly resulting faster process and retrieval of data for the Analytics queries. This activity resulted in improvement of data retrieval performance for seamless employee and customer experience.

- This highlights the reduction on Storage utilization and the client was saved from adding more storage for On-prem database for next **1 year.**
- On-prem Database size reduced **50% from 90%.**

AWS platform has various types of Disk Storage, but EC2 is the most economical data storage amongst them. As, AWS EC2's SAP IQ instance can be used for data retrieval anytime and the storage not to be kept up and running which impacts and decreases the major component from overall operational expense, also, they have not to purchase a new SAP IQ on-prem storage disk or database server and thus the less maintenance and maintenance cost, thus, less overheads. The solution was implemented for other Databases, and they are running fine without any issue.

Client Company has been associated with Ahana for more than 4 years, and Ahana is still supporting the client and is providing seamless services as and when required.

## About Ahana Systems and Solutions

Ahana Systems & Solutions is a leading IT Infrastructure Management Services and Digital Transformation company based in Bengaluru, India. Our expertise extends to a wide range of solutions, including Cloud, RPA, DB & EDW, BI & Analytics, and Application Development. Our 100+ roster of clients relies on us for our deep domain expertise, skilled resource base, and proven partnership with the best technology providers.

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