Case Study
Business Intelligence

Cloud data warehouse (DW) adoption delivered increased agility and reduced operational costs

Customer

US Indices arm of one of the largest exchanges in Europe

Many Line of Businesses (LOBs) are becoming more data-driven and by doing so, spend a considerable amount of time and money in analyzing and creating meaningful insights from the same. Another major challenge for these LOBs, is the time taken by the central IT to provision data warehousing for them.

The solution to overcome a huge challenge, such as this, is to turn build a cloud based data warehouse that can be provisioned relatively faster, provides a scalable architecture for high volume data processing.

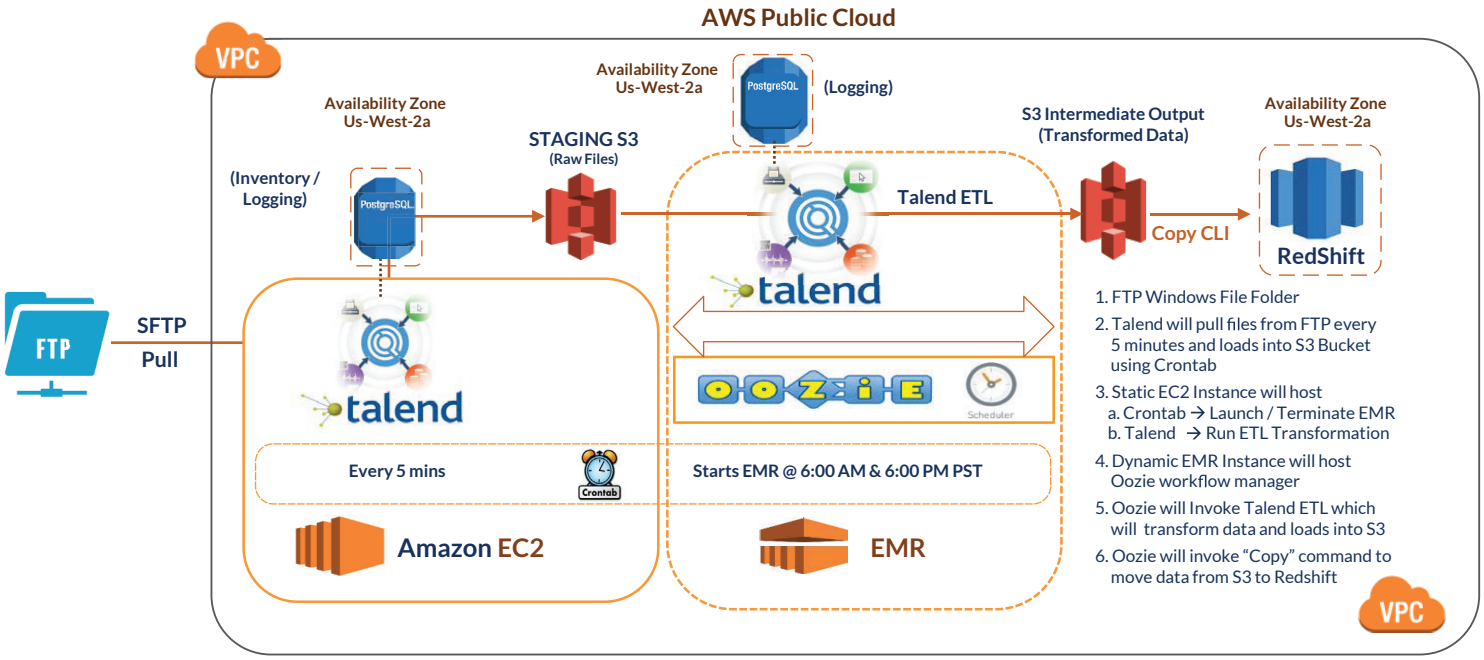
Business drivers for Cloud adoption were identified as

- Existing 12+ years application based on SQL Server was not scalable, had performance issue, took higher efforts for adding new a data elements
- System was limited to few key stakeholders in US, need was to make it available as a global platform
- To savings about £800,000 (OPEX) a year in datacenter hosting and licensing costs by moving to cloud

Project details

- Hexaware has successfully finished roadmap definition phase 0 , assessed the existing DW based on SSIS jobs, Stored Procs, SSRS reports and fund fact sheets
- Defined a 2 year roadmap plan to build the completed infrastructure on Cloud, evaluated various tools on AWS and recommended a stack based on EMR, Red Shift, Talend, S3
- Phase 1 of the project in getting data together from 3 primary data sources and Phase 2 to bring in data from 8+ data sources.
- Transform and store the processed data in S3 and move to Amazon's columnar DB – RedShift, EMR is used for data processing on demand

AWS DW Architecture



Business outcome and results

- Reduced several hours of multi-part data ingestion to automated single bulk load thus saving several hours on data load
- EMR is the managed service component of AWS, which serves the role of an Administrator, performs auto scalability of instances based on the compute (processing) need
- AWS S3 provides a reliability of data to 99.999999999%, where both the raw and processed data are stored

Start of a Game Changing Strategy

- The Cloud DW was treated and built only for internal stakeholders, now the Cloud DW is being extended to deliver the files for external clients.
- The vision is to deliver analytic insights to clients in the near future in a self-service model

About Hexaware

Hexaware is the fastest growing next-generation provider of IT, BPO and consulting services. Our focus lies on taking a leadership position in helping our clients attain customer intimacy as their competitive advantage. Our digital offerings have helped our clients achieve operational excellence and customer delight. We are now on a journey of metamorphosing the experiences of our customer's customers by leveraging our industry-leading delivery and execution model, built around the strategy— 'Automate Everything®, Cloudify Everything®, Transform Customer Experiences®.'Hexaware services customers in over two dozen languages, from every major time zone and every major regulatory zone. Our goal is to be the first IT services company in the world to have a 50% digital workforce.

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