

Case Study:

National Australia Bank



PowerData Group National Australia Bank to build reusable ingestion pipelines for NAB's data lake.

Client

National Australia Bank, Melbourne.

Challenge

The NAB data hub is a staged deployment of an enterprise-wide big Data Lake stored in the cloud (Amazon Web Services). NDH will enable scaled data sharing across the bank leading to better use of data for insights, reporting advanced analytics and bulk data access.

Our Work

Developed Informatica BDM dynamic mapping templates which can be parameterized. This parameterization allows for ingestion squads with basic Unix and excel experience to leverage the templates provided to build data assets. The squads would define a data asset metadata in a csv file and upload it to the NDH framework container.

Once the metadata information is available in NDH a schedule is configured to invoke the pipelines at a predefined interval. Therefore, it only needs to be built once and has a reuse capability so that the squads can focus on providing the asset metadata and configure the jobs, as well as moving the build complexity to a small group of platform developers.

The Outcome

Build & configure dynamic mapping templates in Informatica BDM, which becomes a reusable pattern to load data from various sources into the Data Lake.

- Use Informatica BDM to load data from a variety of structured and semi-structured sources like delimited files, VSAM files, JSON files, RDBMS, External API's, Salesforce & SAS.
- Build a generic data model and product independent framework to populate Conformed layer of NDH.
- Update and enhance in-house built framework utility that automates the development steps and reduces human error.
- Build processes and scripts to support the BDM infrastructure.
- Administration of the Informatica Plant. Involved in designing and executing the entire plant upgrade to Informatica 10.2 without impacting the system availability.
- Perform health checks through Splunk, Cloudwatch of Informatica, EC2 and RDS

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