

AI Enabling Technologies

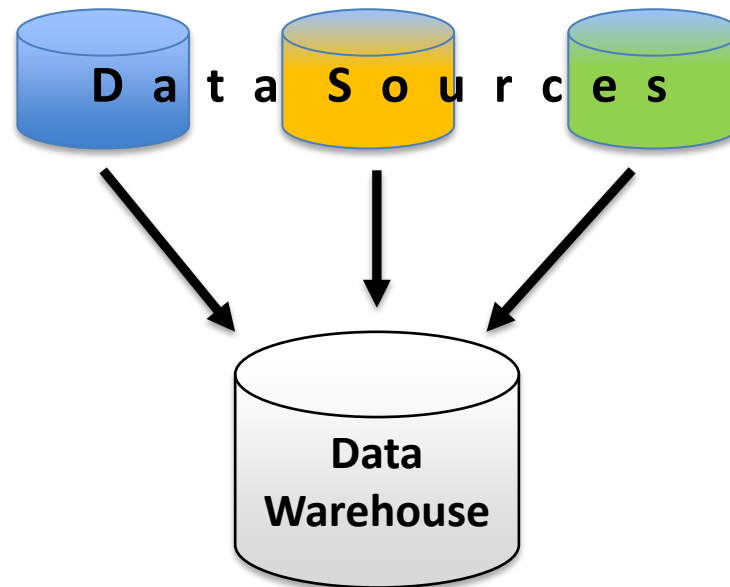
Enterprise Data Warehouse

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Overview

What is the Enterprise Data Warehouse (EDW)?

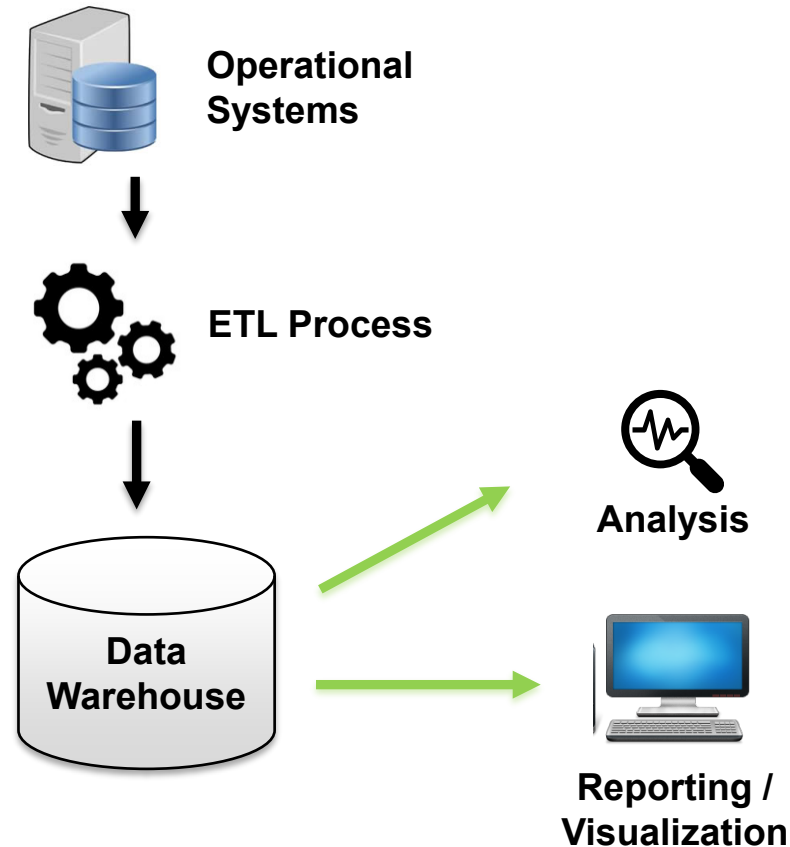
- Central repository of integrated data from NRC's authoritative systems
- Purpose is to provide timely, accurate data from authoritative data sources to be used for reporting and data analytics



Overview

Enterprise Data Warehouse Architecture

- Interfacing systems – NRC’s operational systems, authoritative data sources
- ETL Process - The Enterprise Data Warehouse extracts data from authoritative sources, transforms it in a staging area then loads it into the EDW on a scheduled interval
- EDW - Database that stores the data to be used for reporting and data analytics



Overview

Benefits of the Data Warehouse

- Improved Reporting Performance and Efficiency
- Improved Data Quality and Consistency
- Empowers Users to Gain Data Insights

Azure Cloud

- Data Warehouse migration to Azure Cloud



- **Azure Analysis Services**
- **Azure Cognitive Services**
- **Azure Machine Learning**