

Enterprise Data Warehouse Optimization

Best Practices and Reference Architecture

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Executive Summary

Data is the new fuel. Big Data is transforming every business and industry. Availability of data for analysis is growing with growth in adoption of technology. Consumers and Enterprises are generating Terabytes of data each day with clicks, transactions and many other activities across various devices and operational systems. With the growth of mobile adoption and Internet of things, data is set to grow exponentially.

Data generated by digital transformation initiatives can be the most valuable resource for businesses. They can derive meaningful insights about their users and provide better customer experience. It also helps them to segment their customers with different needs and helps them build next generation applications for business transformation which includes connected factories, smart homes, next generation inventory management etc.

However, new data sources are very different than existing data sources. New data sources are unstructured and high volume along with variety, veracity. Existing data warehouse architecture has following challenges.

- Rigid structure of solution. Schema needs to be defined for ingesting the data.
- Cost of solution; Scale Up vs Scale Out
- Ability to handle new type of data sources

Neither patch work on existing data warehouse nor replacement is most effective option. Enterprises should think differently and new capabilities are needed to enable DW and OLTP to function cost effectively in this new era of Big Data. It is time to modernize and optimize the data warehouse solution by integrating with new technologies to store, process and analyse new data sources.

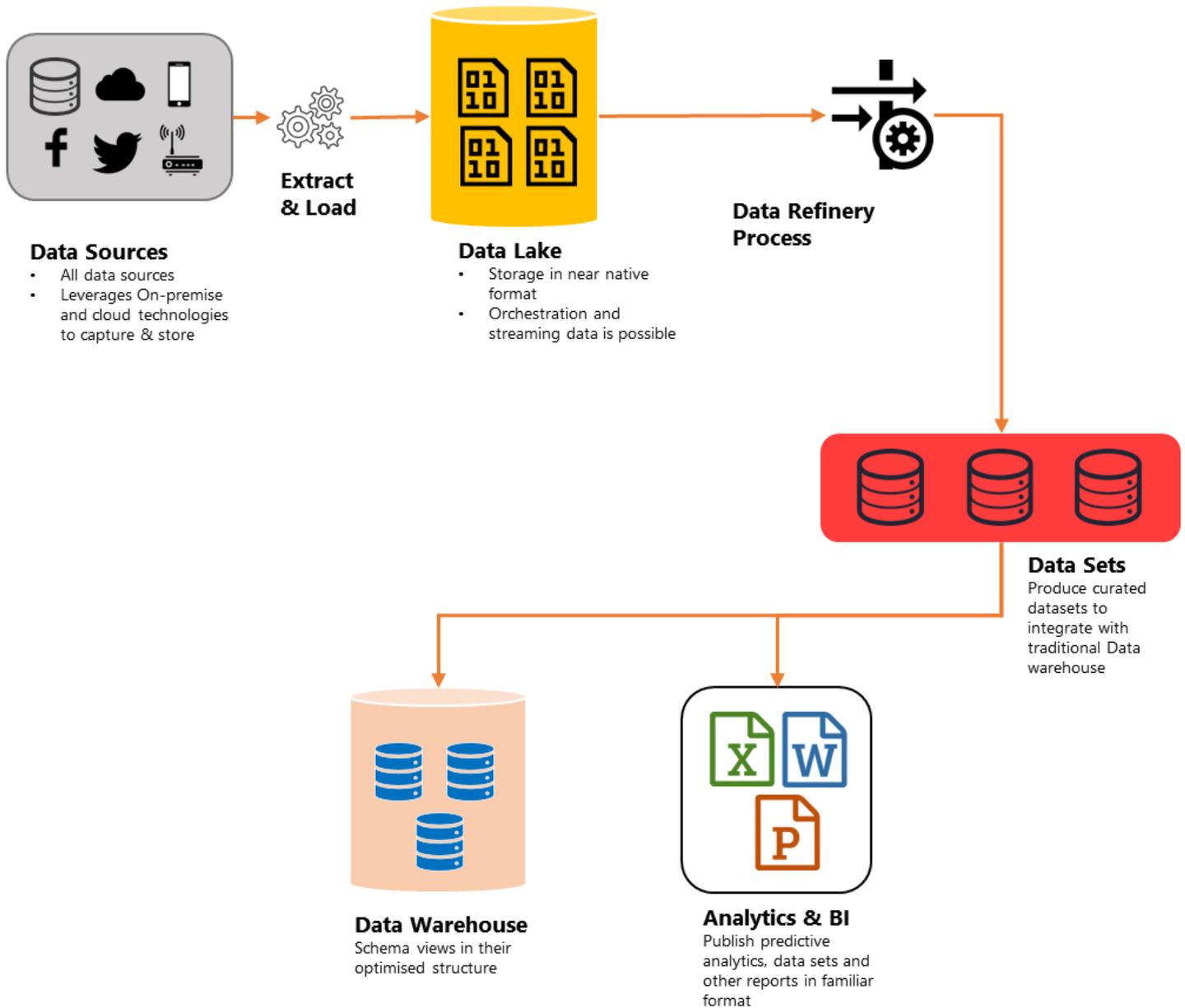
By integrating Big data technologies such as Apache Hadoop, we have created a well-engineered optimization approach and a reference architecture, which enables our customers to get the most value out of their Big Data.

EDW Optimization Approach

New data platforms including Hadoop and related technologies are central component of EDW optimization solution. EDW optimization projects need careful planning. Below are the steps to approach based on our best practices.



EDW Optimization Architecture

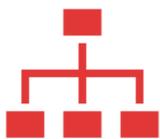


Why Innovyt?



Best Practices approach

Highly experienced team with expertise in Data Science, Advanced Analytics & Cloud solution; We have converted past experiences into best practices.



Framework & Tools

We have built several frameworks, reference architecture and tools to speed up your time to market.



Strategic Partnerships

Partnership with EDW leaders like Cloudera, Hortonworks & Microsoft

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