

PROJECT TITLE:Data warehousing with IBM cloud DB2 warehouse

INTRODUCTION:

Predictive analytics is a data technology for harnessing company data, detecting patterns, and helping businesses prepare for possible events. Businesses use dedicated software, including business intelligence and advanced analytics platforms, to visualize predictions.

These days nearly every enterprise wants to have predictive analytics capabilities to better understand their future possibilities. This enterprise expectation corresponds with a growing interest in Big Data and artificial intelligence solutions – both of which support predictive analytics.

KEY FEATURES:

- ❖ Integrated analytics
- ❖ Speed and scale
- ❖ Graphical user interface or command line
- ❖ Administration
- ❖ Hybrid-ready

Integrated analytics:

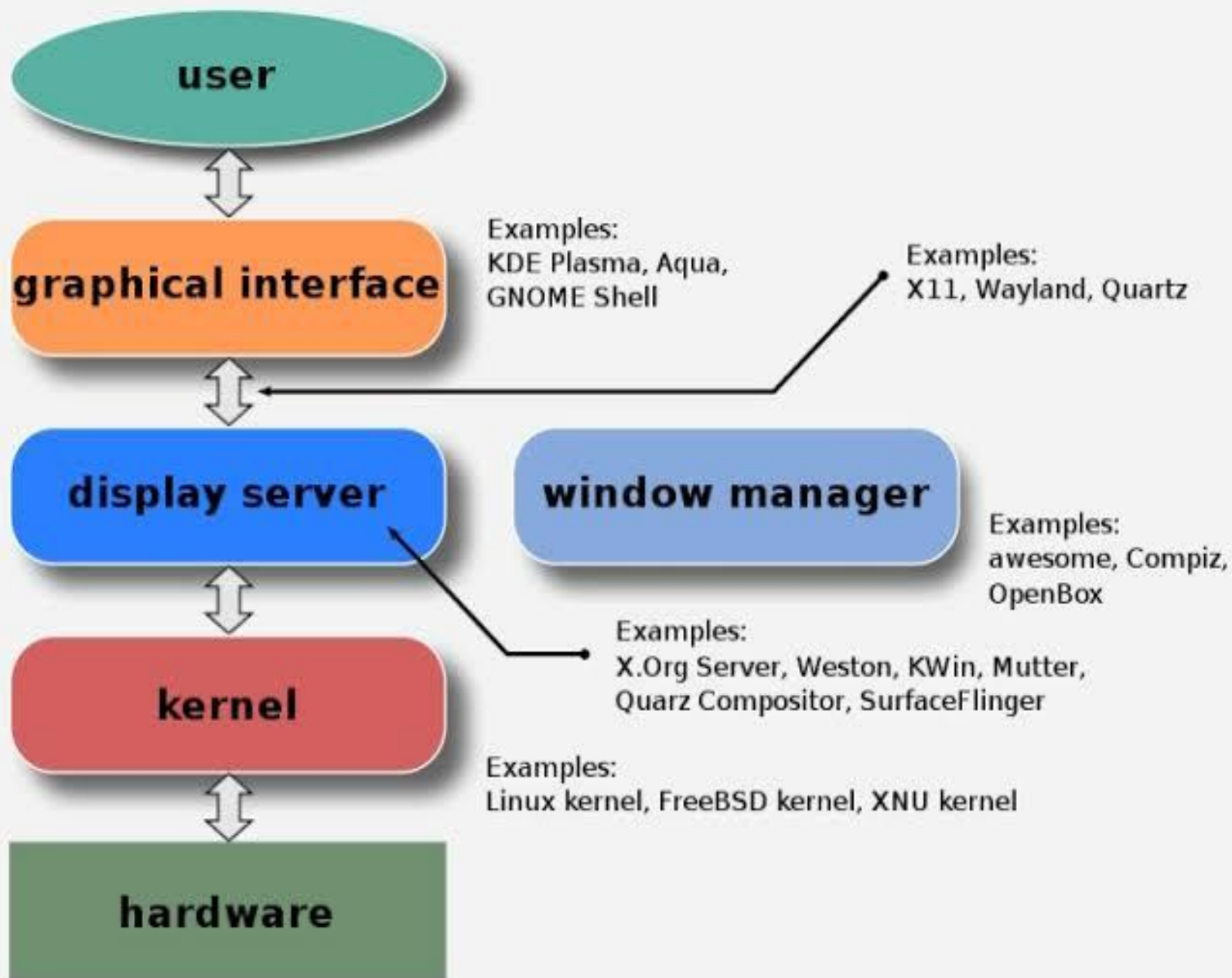
- Run standard or custom predictive models. Netezza technology provides a robust set of analytics that are designed to efficiently bring the query to the data. A range of libraries and functions help you get to the precise insight you need to drive better business outcomes.

Speed and scale:

- For large data sets, the massively parallel processing (MPP) plans use multiple servers to work on the same query simultaneously. Performance increases with each new server added to the network cluster, and you can scale out by adding more servers to your cluster. Dynamic, in-memory columnar store technology minimizes I/O even further and achieves an order-of-magnitude increase in speed, compared to conventional row-store databases.

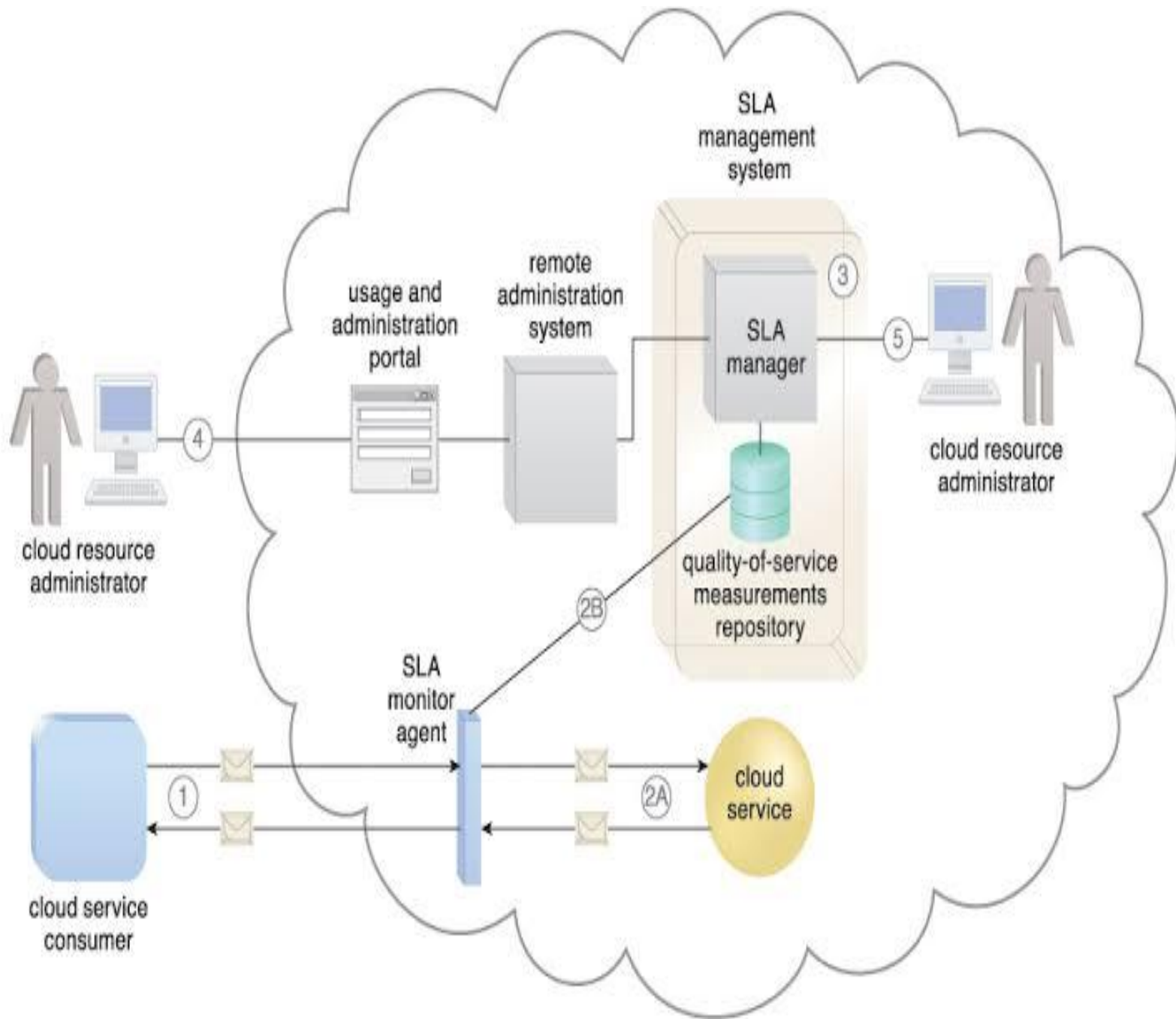
Graphical user interface or command line:

- You can use the web console to perform many key tasks, such as loading data, working with tables, run SQL, and monitoring. Alternatively, you can use the command-line user interface CLP Plus to define, edit, and run statements, scripts, and commands.

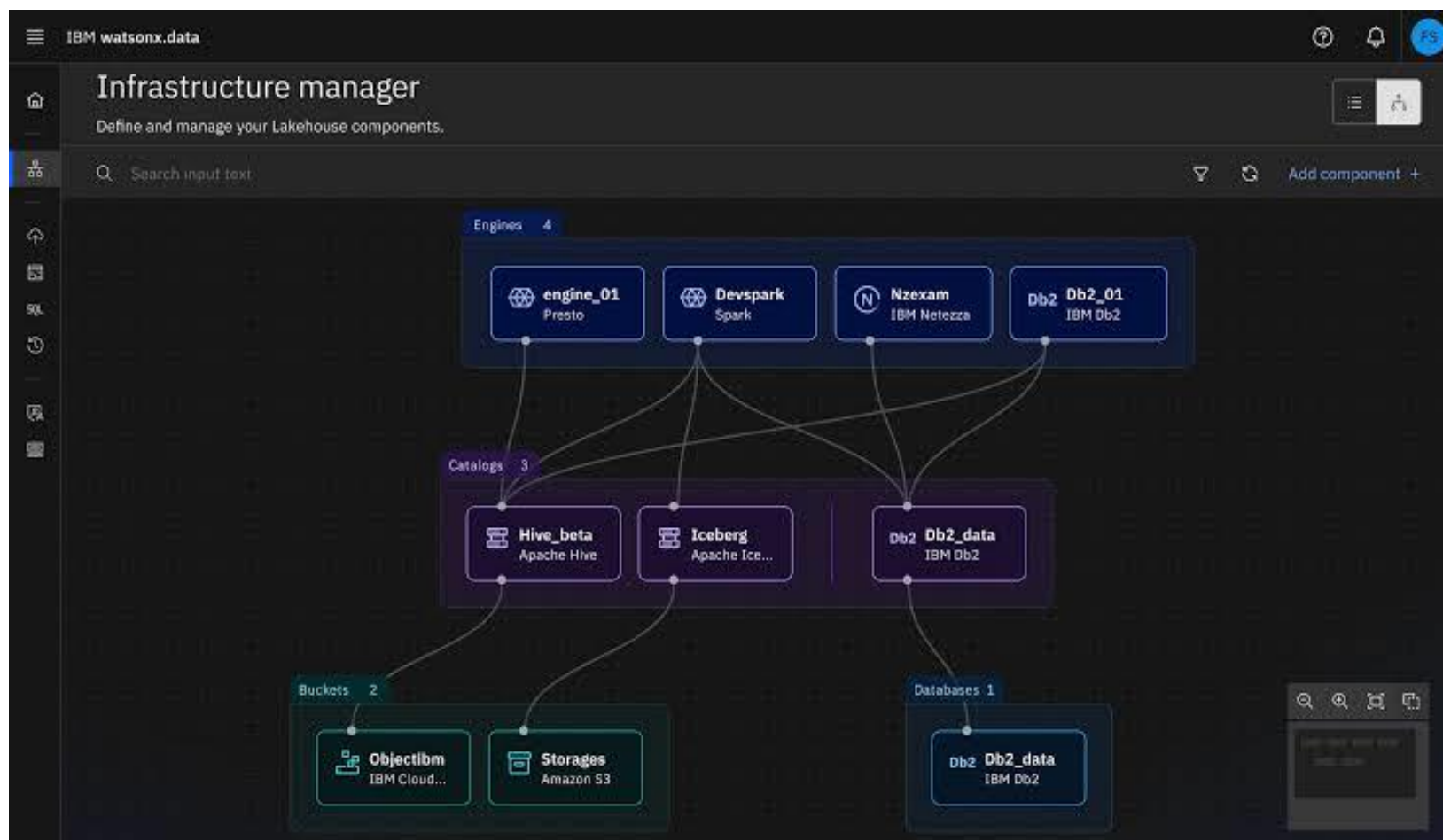


Administration:

- With Db2 managed services, IBM manages the hardware, software, availability, much of the security and more on your behalf. This allows you to focus on your business outcomes and not on the infrastructure needed to deliver those outcomes. With IBM Db2 Warehouse, you perform management tasks on the Docker-supported infrastructure of your choice, without the hassles of complex configuration.

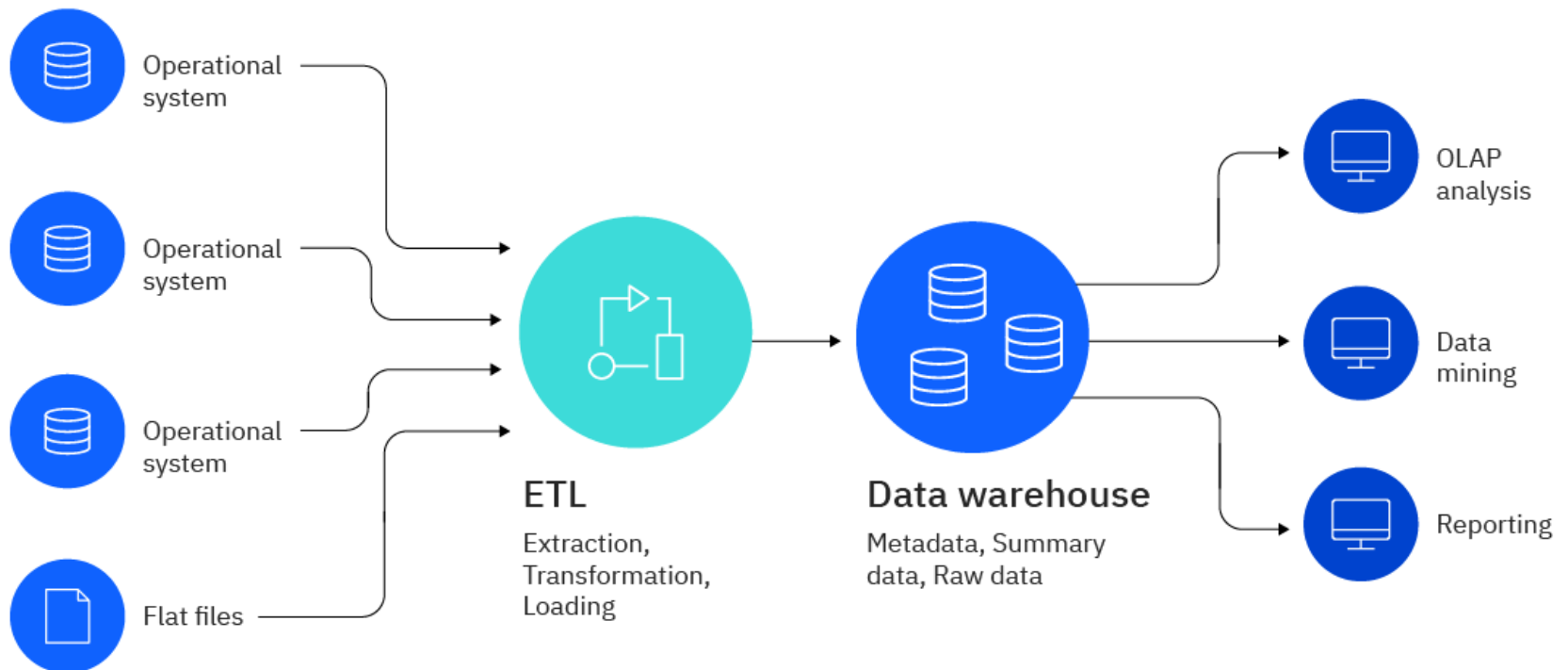


Hybrid-ready:

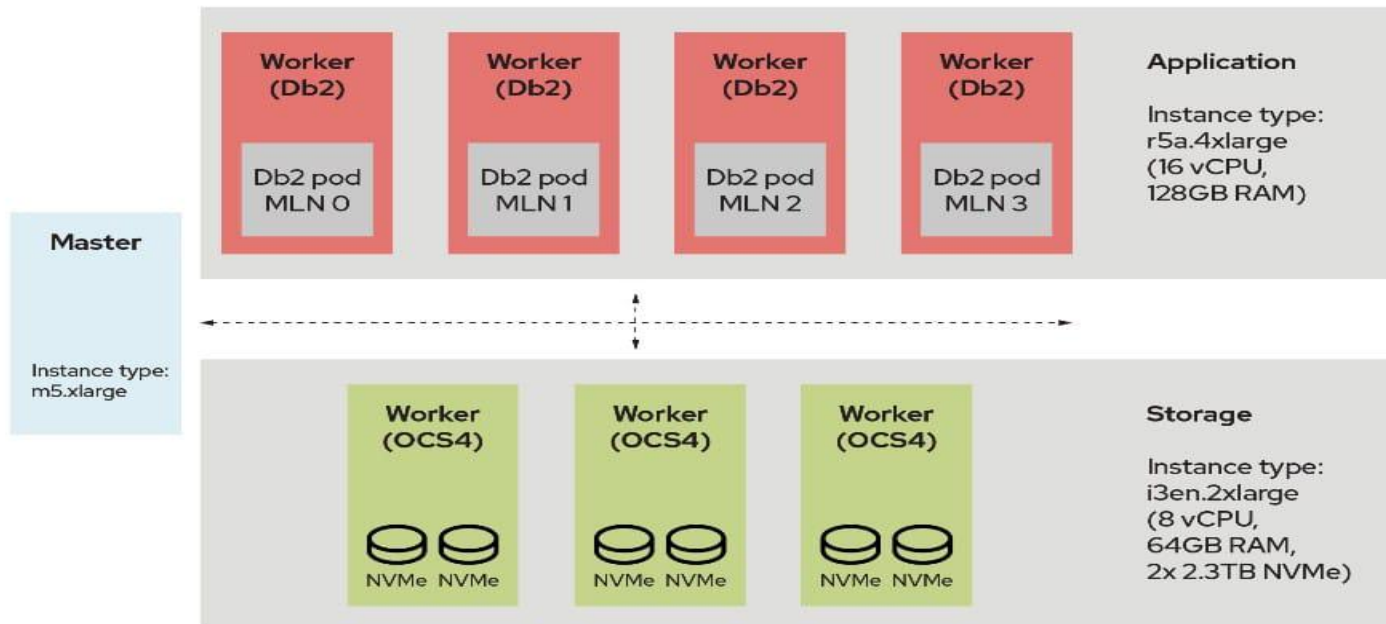


Achieve the efficiency of a hybrid data warehouse through a common analytics engine that can run advanced analytics against any data source, at any location, without compromising data quality or IT budgets. For example, you can write your application once on Db2 Warehouse, and then move the workload to the right location (public cloud, private cloud, or on-premises).

Data ware house architecture:



BLOCK DIAGRAM:



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