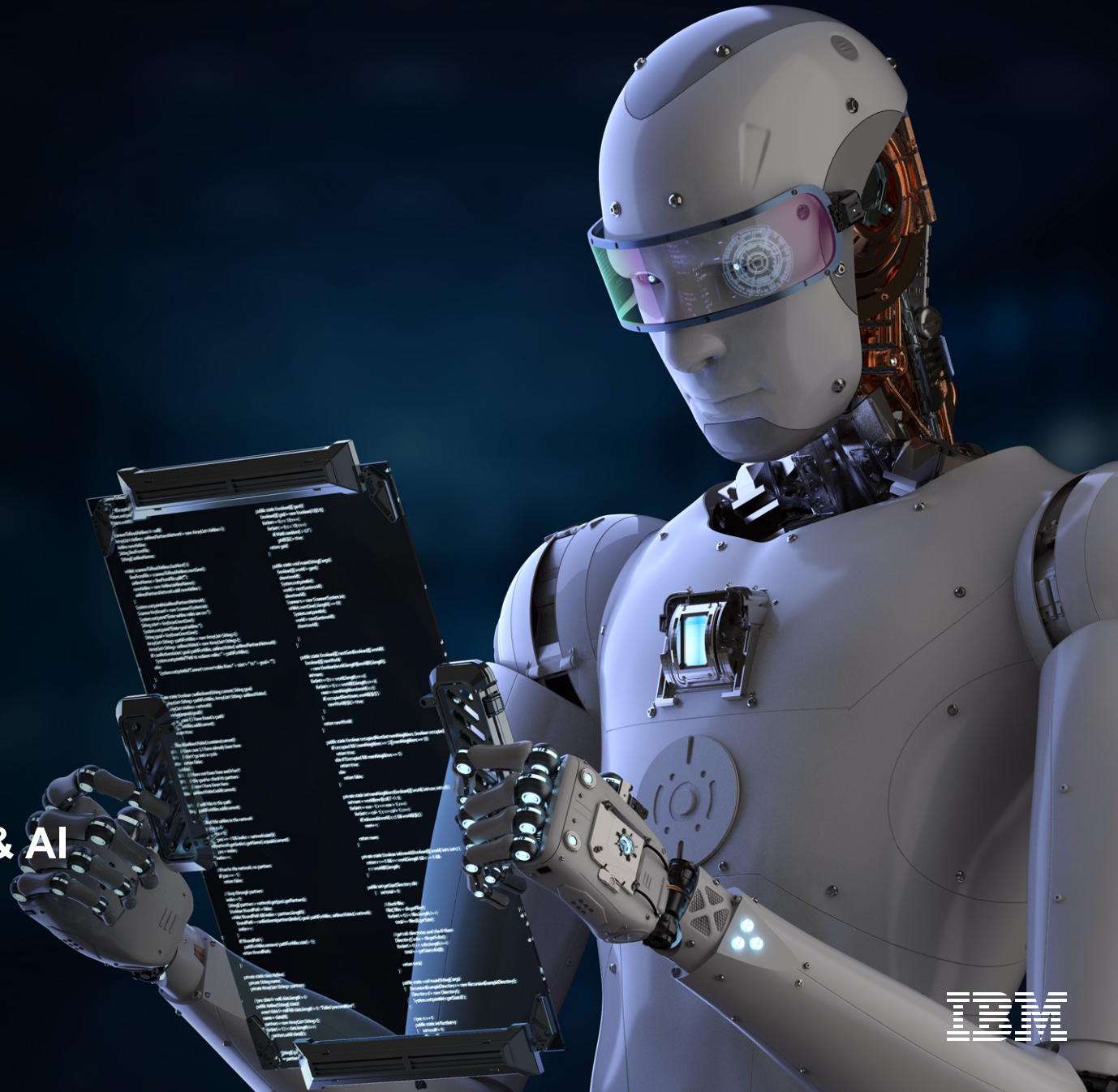


# Db2 AI Database

**Piotr Mierzejewski**  
**Director Db2 LUW Development IBM Data & AI**





# Creating Ecosystem Its All about Developer !

## **Transform** your business

- > embrace Open Source
- > adopt industry standards

## **Deliver** data

- > all data at your fingertips

## **Create** AI apps

- > build
- > test
- > deploy





# Powered by AI

## **Query Optimization:** ML Optimizer

- > Cardinality Estimation
- > Equality & range predicates
- > Join conditions and expressions

## ML infused **Workload Management**

- > predictive models for query cost , CPU/RAM utilization
- > continuous learning based on execution actuals

## **ML infrastructure ( LightGBM )**

- > model training
- > model repository
- > model hosting



# Build for AI

- ✓ **REST API** for Static & Dynamic SQL
  - ✓ Access data you want directly from application
- ✓ **Db2 Graph** – discover hidden insights in your data
- ✓ Create ML Pipelines as **Python UDF**
  - ✓ Deploy your training pipelines directly on the server
- ✓ Augmented **Data Explorer**
  - ✓ Navigate through your data
- ✓ Node.js, Python , Go **Drivers**
  - ✓ Your language, your choice
- ✓ **Data Virtualization – one stop shop !**
  - ✓ RDBMS, Object Store , Data Lake , structured & unstructured



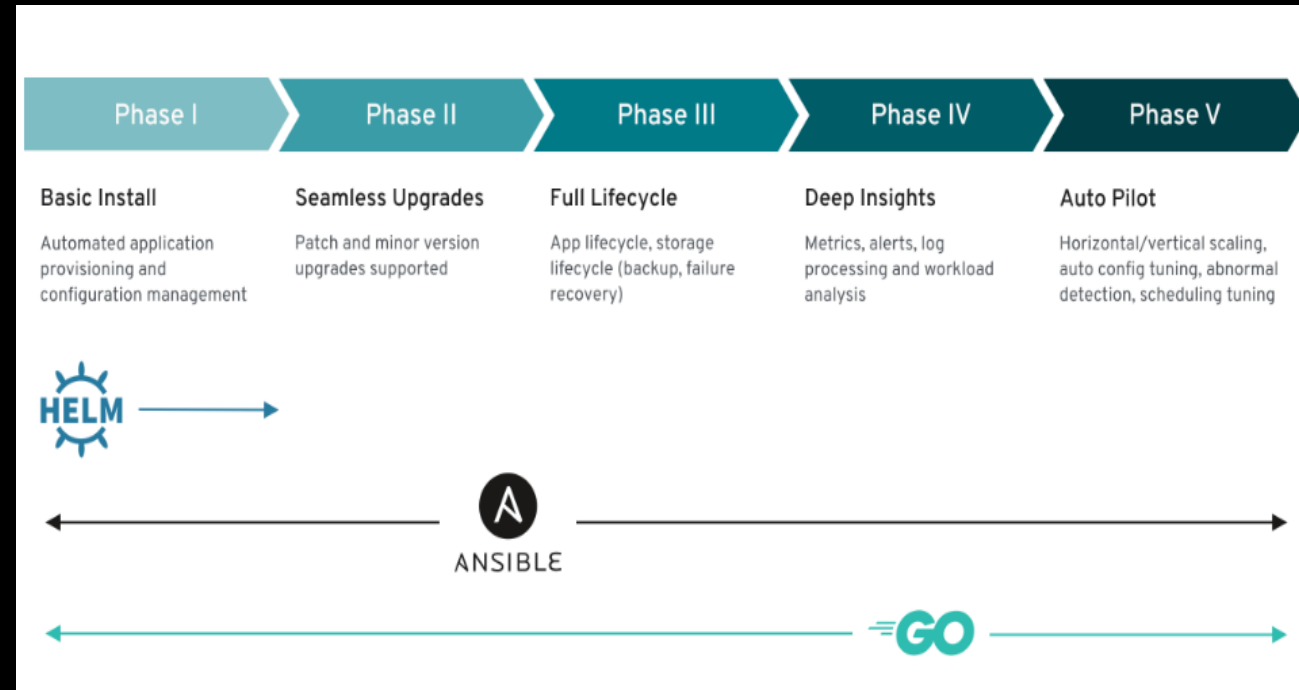


# What about Containers ?

## Db2U born in k8s era

With a common underlying architecture based on **Kubernetes Operators**, **Db2U** delivers a consistent experience across cloud environments:

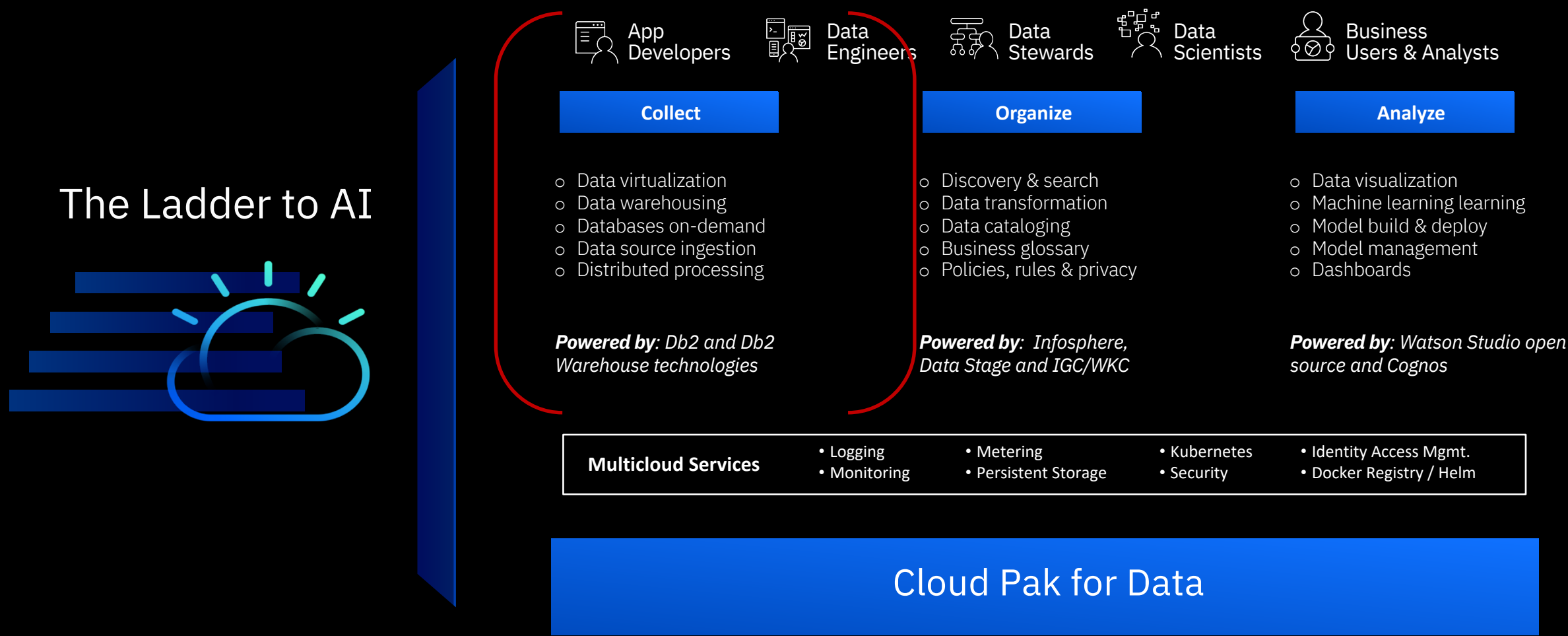
- **RedHat OperatorHub**: prototyping and production use
- **Cloud Pak for Data**: complex workloads, advanced management capabilities
- **All Public Cloud**: seamless applications migrations to AWS, Azure, SL , Google Cloud
- **“True hybrid” experiences**: transparent data movement between public and private clouds with Common SQL Engine



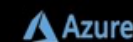
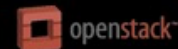


# Cloud Pak for Data – Self-serve Different Personas

Foundational “out of the box” multicloud data & AI services



IBM Cloud





# Thank you

Piotr Mierzejewski  
Director Development Db2 LUW IBM  
Data & AI