



Data Fabric with IBM Cloud Pak for Data

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Digital Transformation: 3 Mega Trends

Themes from Think 2021

These are 3 mega trends driving changes in Data & AI. SEE the notes.

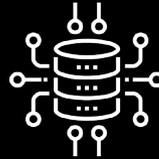
Move to inter cloud



Hybrid data architecture for BI and AI

Hybrid Cloud Data Fabric

Data Lake & Data Warehouse convergence



Single query engine decoupled from storage to support enterprise BI and AI

Modern Data Warehouse

AI governance

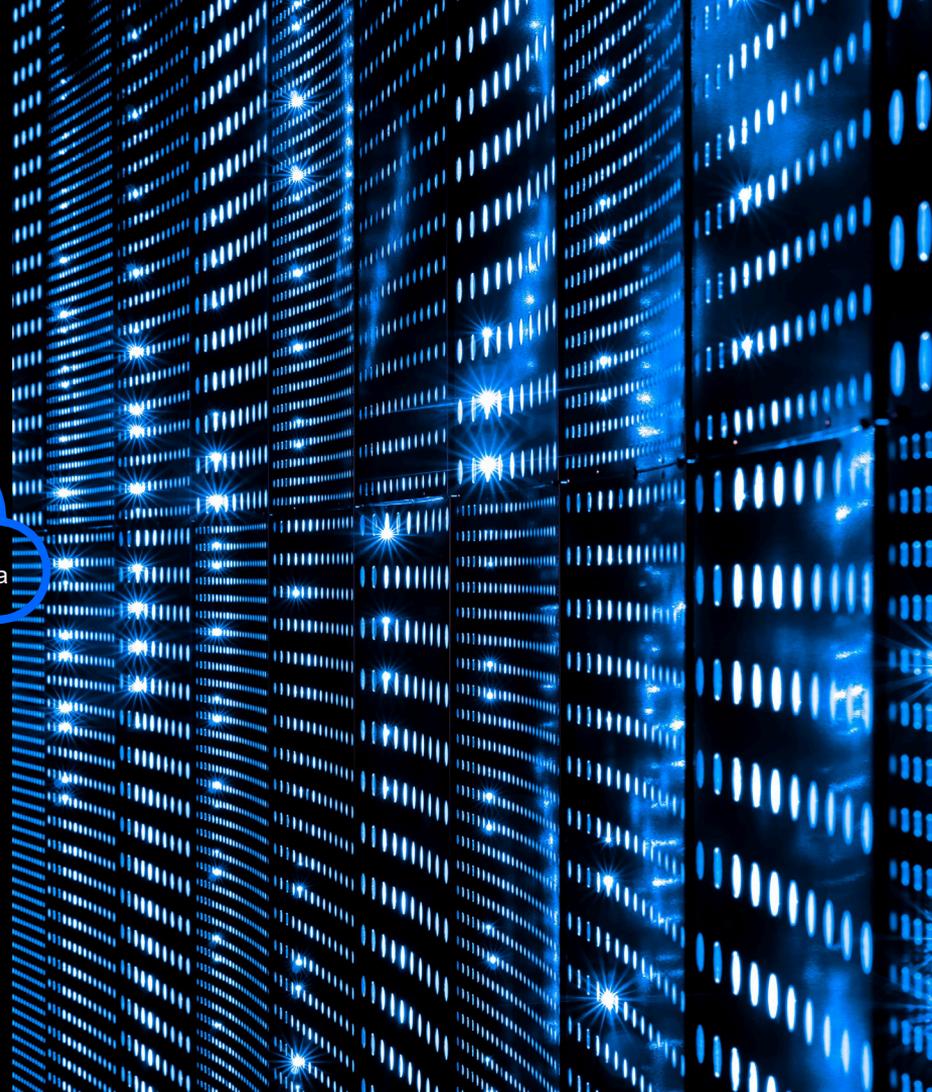
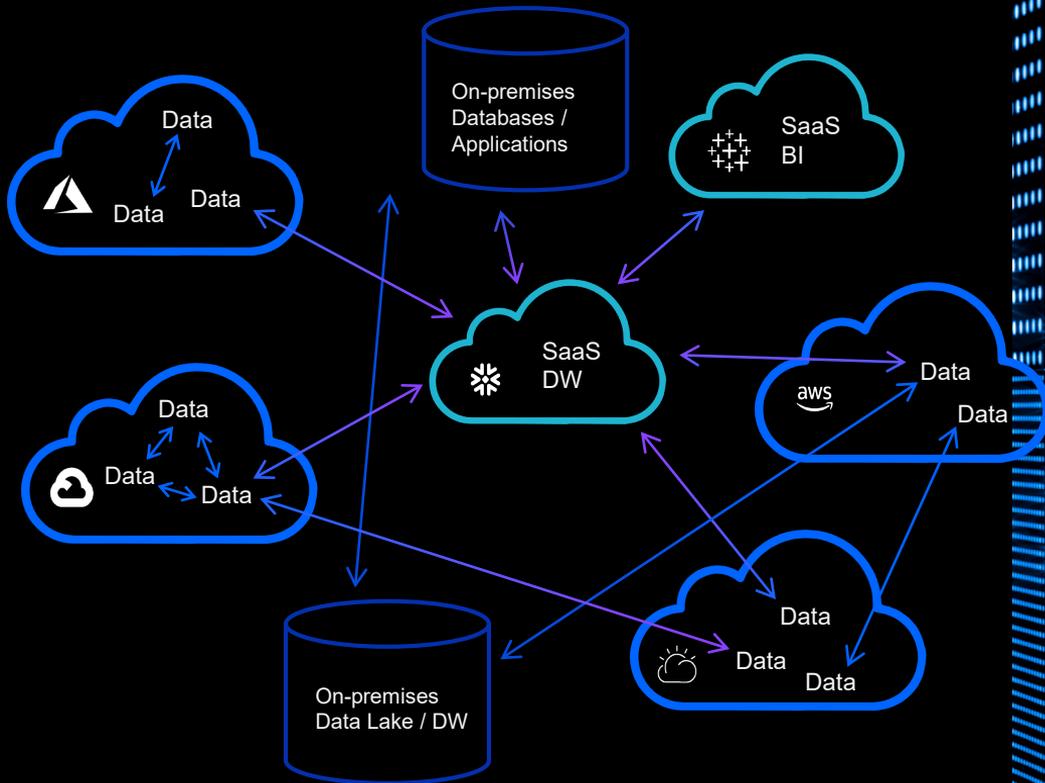


AI lifecycle to support end-to-end Governance, Risk, and Compliance (GRC)

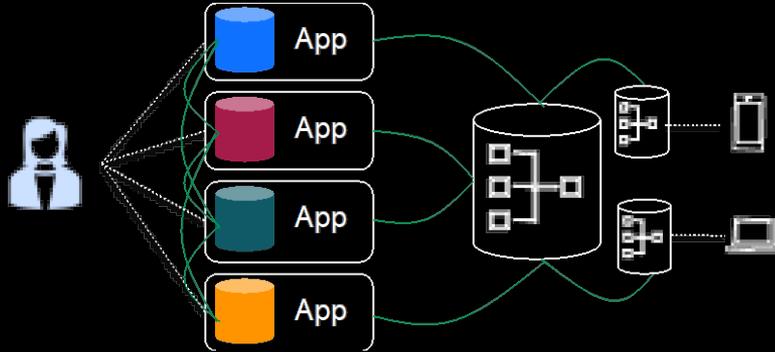
End-to-end governance & privacy

Next Generation Cloud Pak for Data

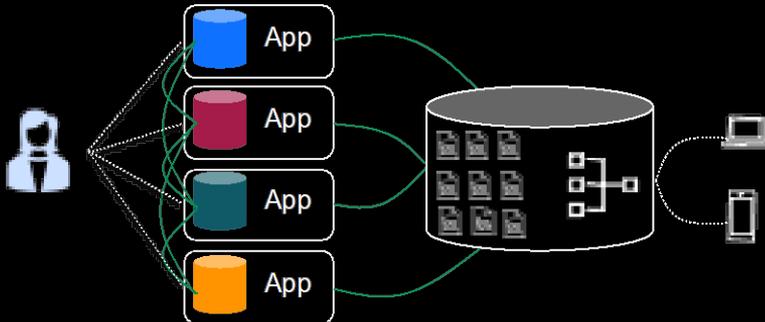
Trusted AI



Data Warehouse



Data Lakehouse



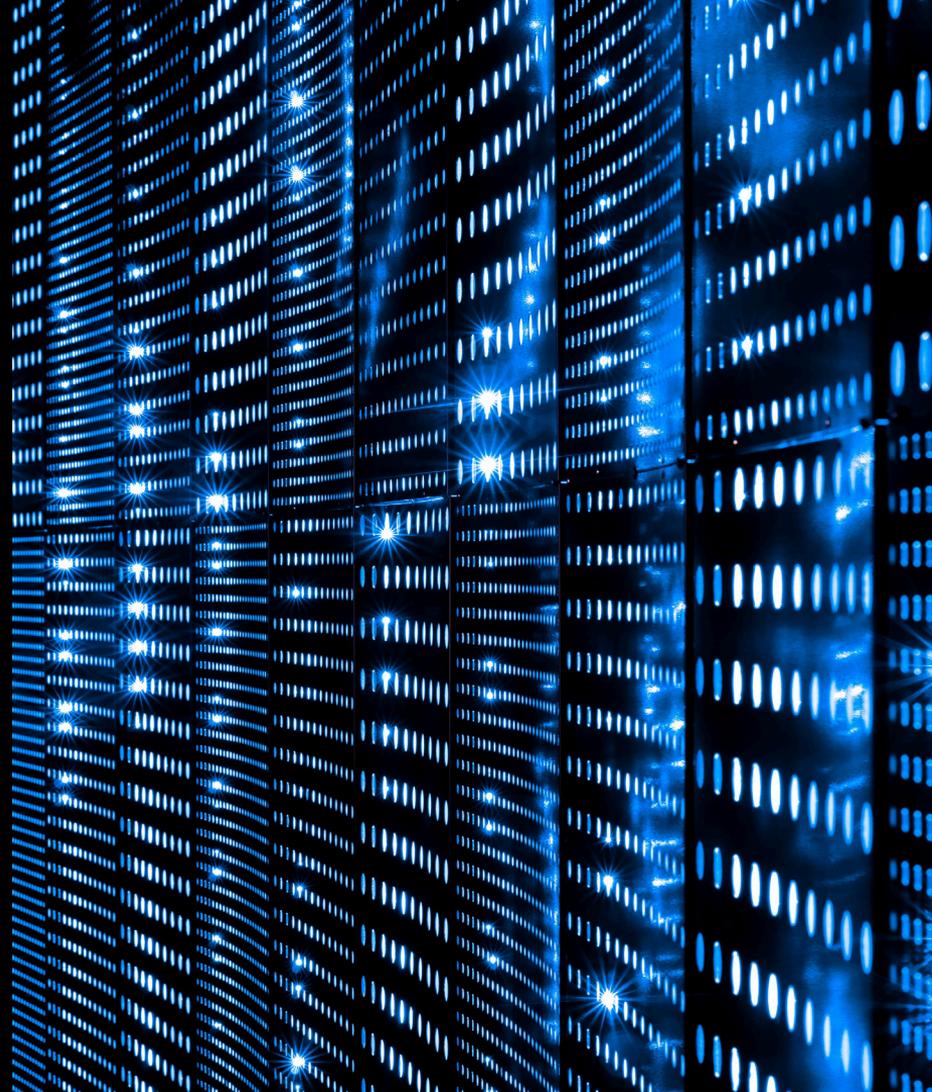
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Prepare

Data operations
Discover, understand, ingest,
integrate, assess quality, cleanse

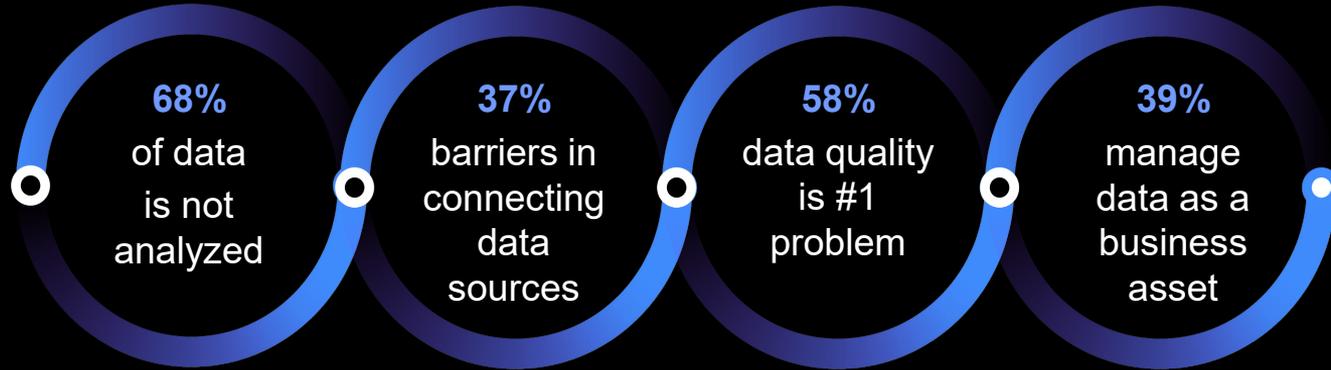


73%
of data
is not used
currently



WHY data warehouse modernization?

data management complexity is the great inhibitor



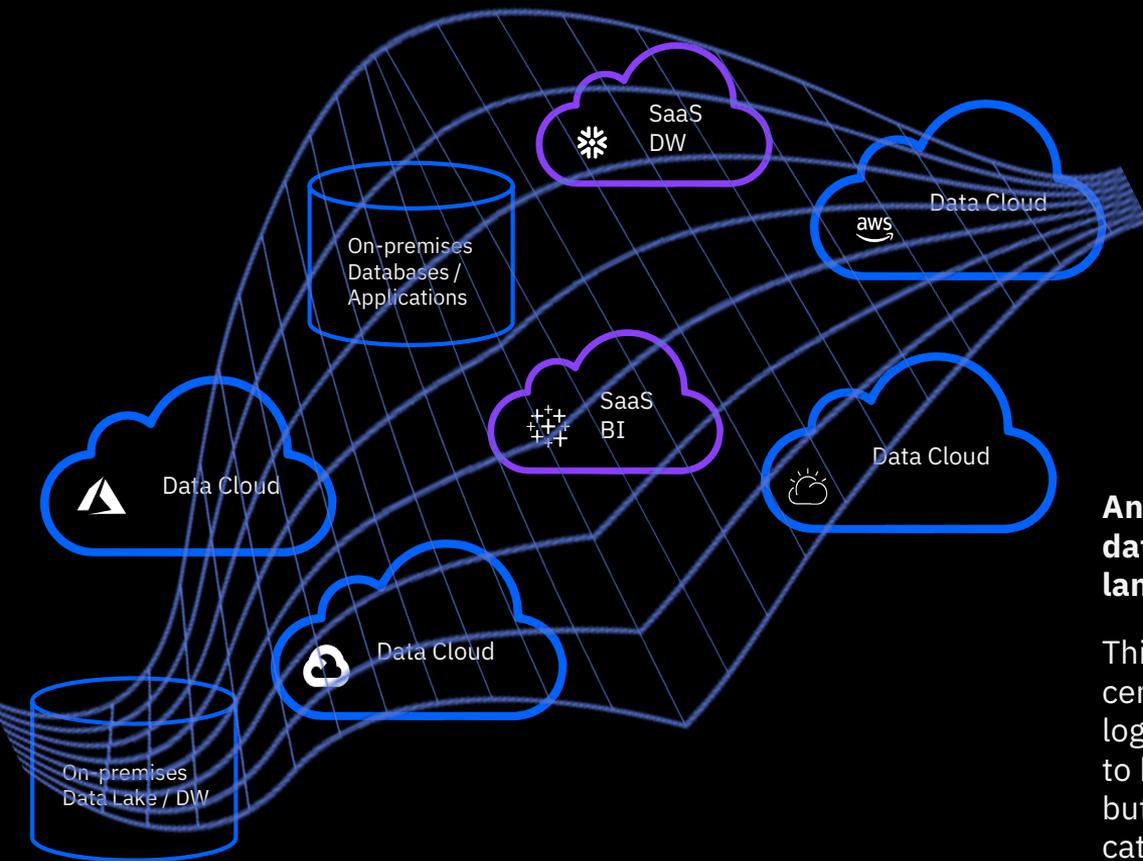
- Data is spread across expansive digital ecosystems as cloud apps proliferate
- Overly manual efforts to move and unify data are slow, costly, and have limited impact
- Rapid growth in data with decreasing lifespans will only make things worse

42%
annual growth
in enterprise
data volumes

connects data from multiple locations,
types, and sources
with access methods
to abstract the complexities associated with
underlying storage, movement, transformation,
securing and processing of data.

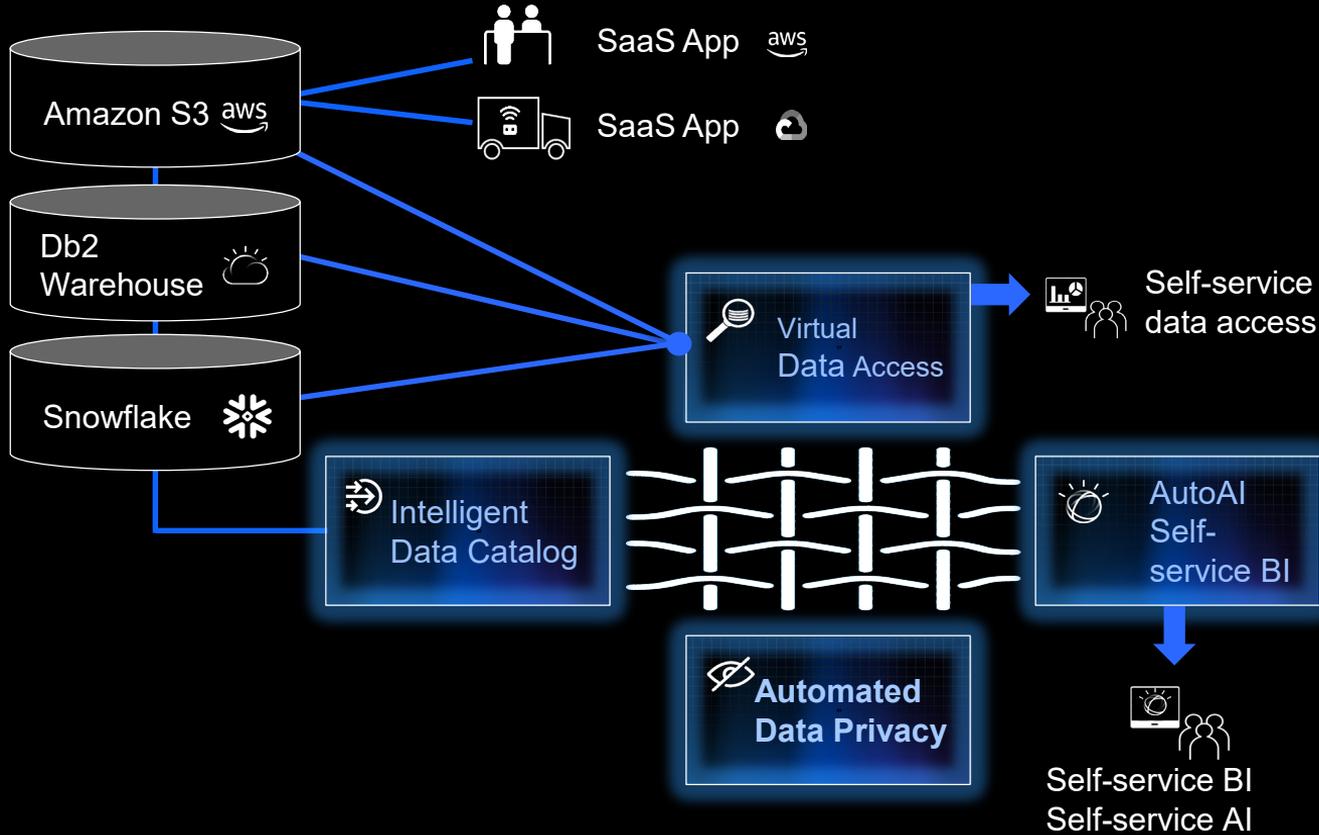


data fabric



An abstraction layer to share and use data, with data and AI governance, across a hybrid cloud landscape.

This doesn't mean a pendulum swing to everything de-centralized - it is a balance between what needs to be logically or physically de-centralized and what needs to be centralized (e.g., you can have multiple catalogs but there can only be one source of truth for the global catalog)



- 1. Intelligent Data Catalog**
 Discovers, catalogs, and enriches existing data across sources, creating a knowledge graph of linked information.
- 2. Automated Data Privacy**
 Defines and enforces privacy rules and usage policies for any cataloged data asset.
- 3. Virtual Data Access**
 Enables real-time virtual data access to distributed data discovered in the **Data Catalog**.

Cloud Pak for Data: an information architecture for AI



Infuse AI Applications

Cloud Pak for Data

Pre-integrated Data, AI and Cloud services delivered within an open and extensible cloud native platform



Collect



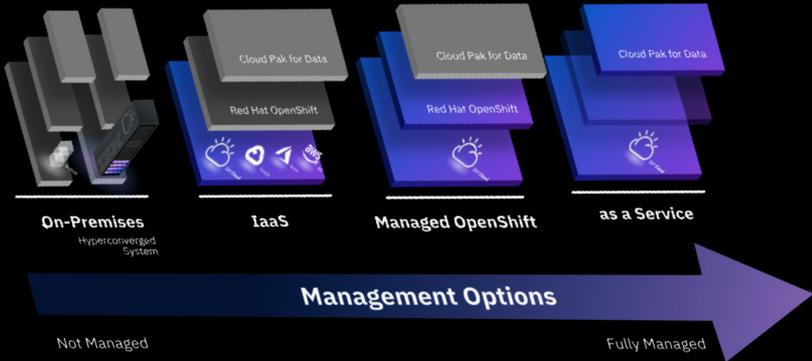
Organize



Analyze

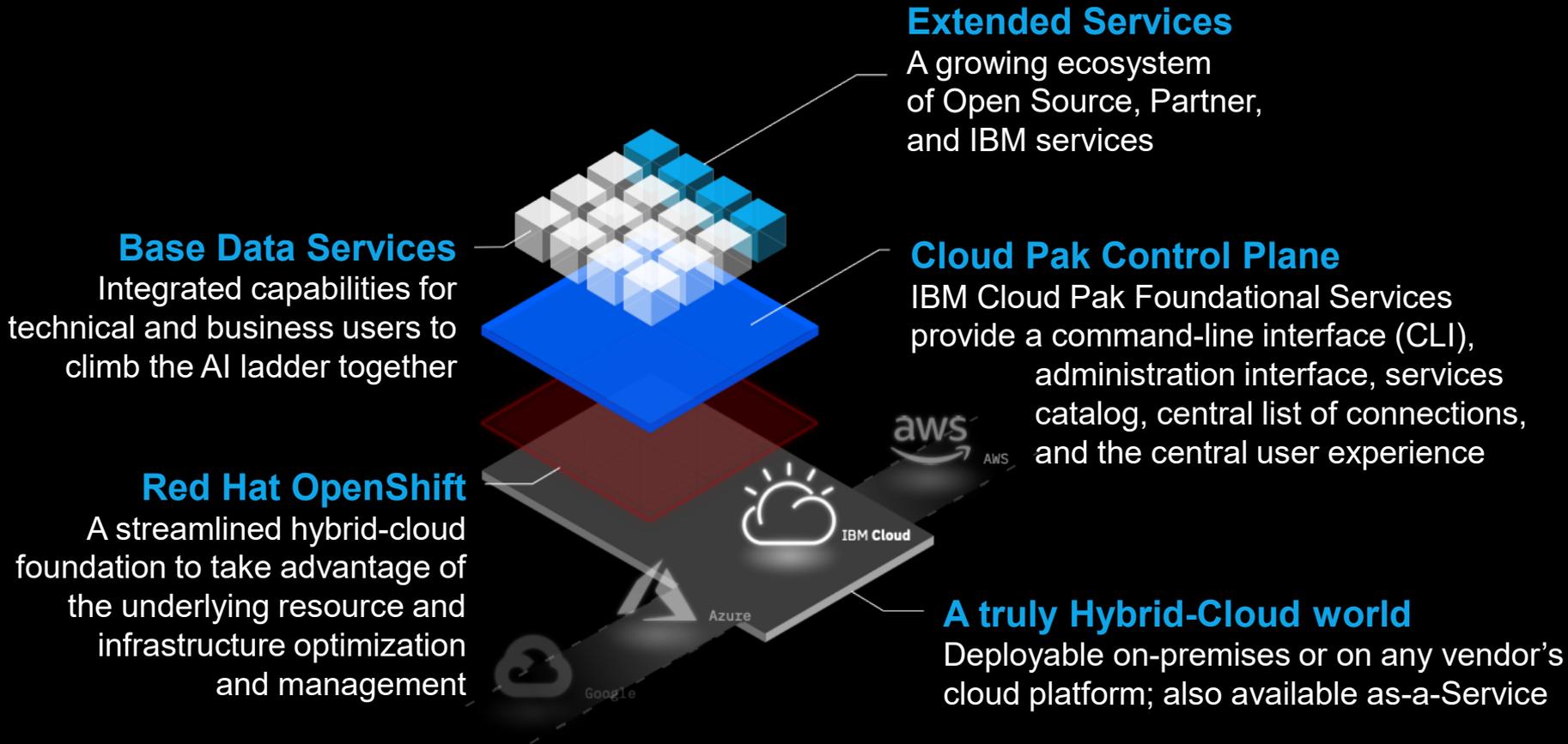


Hybrid cloud platform



Cloud Pak for Data

simplifies, unifies, and automates your journey to AI



Cloud Pak for Data across AI Ladder

IBM's prescriptive approach to the journey to AI

Infuse

Operationalize AI throughout the enterprise

Analyze

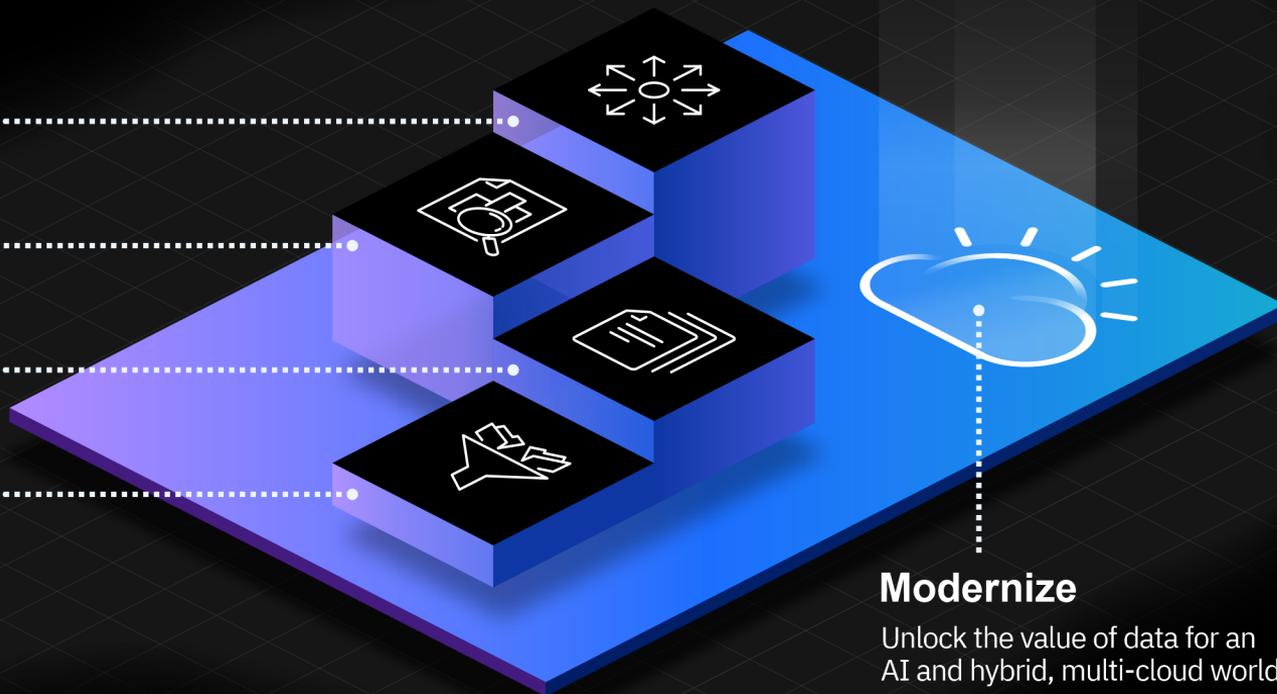
Build and scale AI with trust and transparency

Organize

Create a business-ready analytics foundation

Collect

Make all data simple and accessible



Modernize

Unlock the value of data for an AI and hybrid, multi-cloud world

Data Fabric with Cloud Pak for Data

enhanced automation



AutoAI

Automate training, predictive accuracy and explainability for models that rely on siloed data sets and time-variant conditions



AutoPrivacy

Automate enforcement of universal privacy and usage policies across the ecosystem of sources and consumers



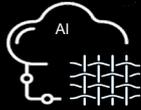
AutoCatalog

Automate data discovery, understanding and enrichment by maintaining real-time knowledge of business-ready data



AutoSQL

Automate access to unify data across distributed data/cloud landscapes without data movement



An intelligent data fabric

- Weave together new insights from unified data
- Democratize data usage across more people
- Unleash productivity and reduce cost/risk
- Make AI business easier and faster

Infuse

Operationalize AI throughout the enterprise

Analyze

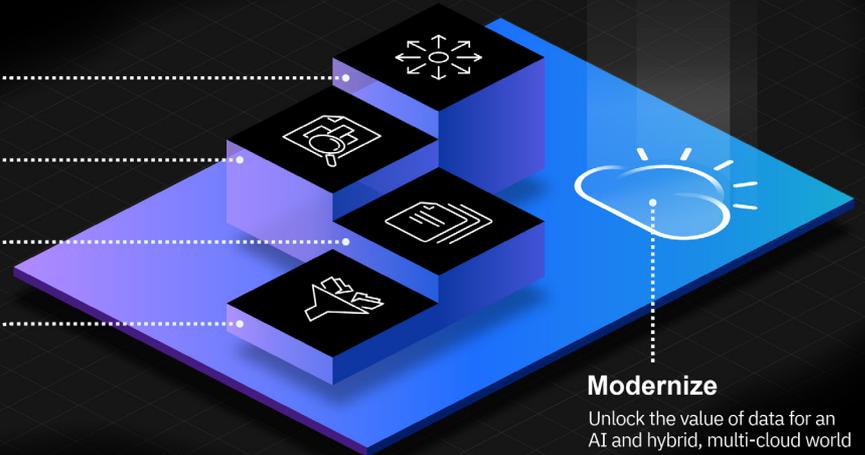
Build and scale AI with trust and transparency

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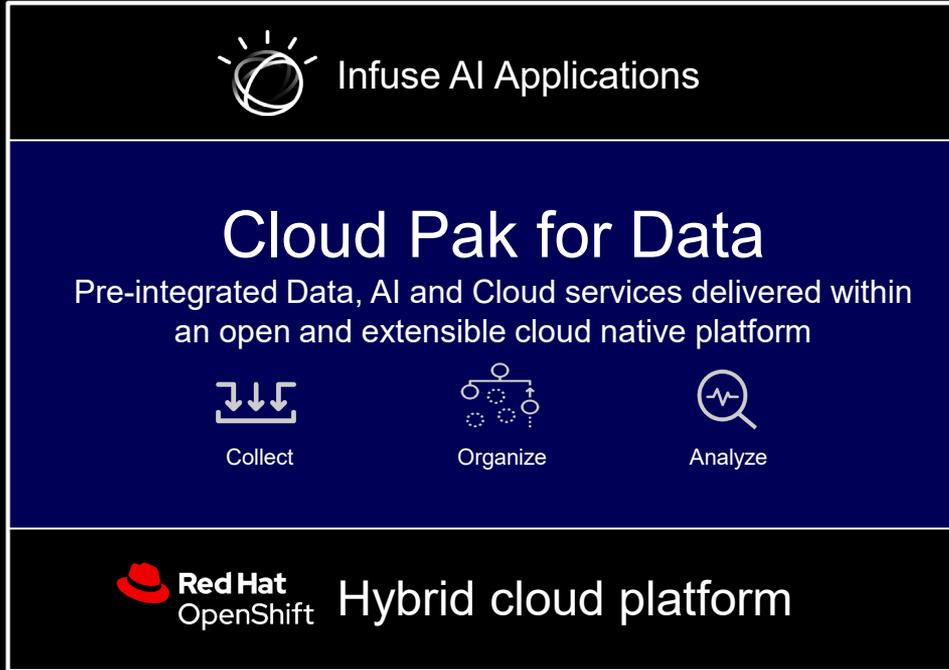


Modernize

Unlock the value of data for an AI and hybrid, multi-cloud world

Data Fabric with Cloud Pak for Data:

benefits



Break down data silos

Access data across business silos, on premises and in clouds, without moving the data.

Keep data private and secure

Universally safeguard data usage with privacy and usage policy enforcement across all data.

Empower all data consumers

Enable users of all skill levels to access trusted data with tailored interfaces (Code, Canvas, No Code)

Get faster insights

Use a modern, high-performance cloud data warehouse to achieve faster insights.

Trial for Cloud Pak for Data as a Service

experience CPD before having it for good

IBM Cloud Pak for Data

Try IBM Cloud Pak for Data

Get going today with IBM Cloud Pak for Data. Explore a fully managed platform of integrated data and AI services spanning data science, DataOps, data management, automated AI and more.

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