Bio

Thebe Malatji

Senior Manager, Data Technology African Bank

A change driver who designs, builds and maintains solutions that improve the productivity of corporate decision-makers. As a leader, I encourage innovative ideas and forward-thinking that create technology solutions that improve lives. Inspiring others to achieve remarkable things is my philosophy.

EMPOWERING YOUR DATA MANAGEMENT CAPABILITY WITH CLOUD

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01 Introduction

Benefits of Cloud Data
Management
Analysis of Cloud Data
Management

04 Recommendations

01 Introduction

2 Benefits of Cloud Data Management

3 Analysis of Cloud Data Management

4 Recommendations



Introduction

97(ZB)

2022

2021

2020

Why

Ineress

+350mil(TB) Daily

ineress

Without cloud we often struggle to process this data and thereby creating a bottleneck. In 2025, global data creation is projected to grow to more than 180 zettabytes. https://www.statista.com

To manage large volumes of structured and unstructured data, scalable and elastic data management is essential.

Inefficient data management results from a lack of scalability, elasticity, and fluidity.

Benefit

eatess

egres

+0.33(ZB)

Daily

A large amount of data is generated than before. A cloud computing environment provides not only readily available infrastructure, but also the ability to scale that infrastructure to handle large spikes in traffic or usage.

> data management solutions enable Cloud organizations to manage data efficiently and effectively to gain valuable insights. Cloud technology eliminates bottlenecks, maintenance costs, delayed reporting and enables fast and seamless DataOps delivery. Using cloud technology will allow you to manage your data in a scalable, elastic, and flexible manner.

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Introduction

02 Benefits of Cloud Data Management

Analysis of Cloud Data Management EITHER YOUR CAR HAS CLOUD TECHNOLOGY, OR YOU'VE BLOWN AN ENGINE.

Benefits of Cloud Data management

Key capabilities of Cloud in the context of Data Management



Integration

Cloud data integration enables you to build and run advanced integrations at speed and scale. Build enterprise-scale integration workloads in hours or even minutes.

(4)

Storage

Cloud can store large volume of structure and unstructured data, it offers fast retrieval of data, scalability, data availability, data fluidity, security, and performance, all at a very low cost.

Analytics

Cloud analytics enables deployment of scalable cloud computing with powerful analytic software to identify patterns in data and to extract new insights. https://www.netapp.com/

Key Benefit of cloud

Using Cloud environments, organisations can improve their data management efficiency and effectiveness by deploying scalable, elastic, ML and AI-driven capabilities. **Disadvantges of Cloud**



Security concerns Cost concerns



Benefits of Hybrid Multi-cloud

Cloud-based data analytics platforms for maximum efficiency in modern data analysis





Best of Breed

-cloud

Hybrid-Multi

Key Benefits of

- Ability to find the best-inclass
- Agility & Elasticity
- Flexibility and scalability
- **Robust security**
- Performance improvements Enhanced risk management Minimise vendor Lock-in



Cloud

Key

https://cloudacademy.com/ blog/disadvantages-ofcloud-computing/

Public

Cloud

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4 Recommendations

BEING A CLOUD WAS SUCH A CAREFREE EXISTENCE - NOW PEOPLE EXPECT SO MUCH FROM US!

Analysis of Cloud data Management

Best practices for managing data across various silos in hybrid environments



Analysis of Cloud data Management

Common pitfalls of cloud data migration

Cloud Migration Pitfalls	%
Big Bang Approach	35%
Lack of Cloud Adoption Strategy	30%
Lack of Costs Management	10%
Data Quality Test	10%
Experienced Vendor	5%
Security Pre-planning	5%
Other	5%

Mitigation

Trickle Approach

Implement agile Cloud data migration.

Cloud Adoption Strategy

Set clear migration goals, communicate, implement Cloud skills, consider multivendor approach. Big Bang Approach



Big Bang Approach

A high risk of expensive failure: unexpected trouble, lack of agile project management.

Cloud Adoption Strategy

Strategy

Unclear goals leads to spending more than what is needed. Eventually, it leads to burning money in your pockets.

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ACCORDING TO THIS,

THE PLANET EARTH WAS ONCE POPULATED BY

MOVED TO THE CLOUD.

HUMANS, THEN

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Analysis of Cloud Data Management

04 Recommendations

Recommendations

Use Cases

CLOUD DAAS

Misleading, delayed reporting and insight due to data inaccuracy and unavailability Legacy and long running ETLS

CLOUD DATA LAKE

Data warehouse system instability maintenance costs, delayed reporting and insight

OUTCOME

Data quality, real time data and reporting Automated and self-service insights Reduced ETL maintenance costs

CHALLANGES

Vendor lock in Skills shortage

ADDED BENEFITS

Scalability, Reduce ETL costs, enable data fluidity, Agility, Data variety and Data lineage



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ADDED BENEFITS

Scalability, Reduce ETL costs, Agility, Data fluidity and Data variety

OUTCOME

Data warehouse stability

CHALLANGES

Migration Incompatibility

Reduce maintenance costs

Enable real-time reporting and insight

Skills shortage, Micromanagement of costs

Change management, Organization readiness

SOLUTION

Hybrid Multi Cloud

■01

SOLUTION Hybrid Cloud



Conclusion

To succeed in today's data-driven world, it is essential to embrace scalable cloud data management THANK YOU Questions