# aws summit

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BMARC005

# How KFintech modernized their data platform to power innovation

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Senior Solutions Architect
AWS India



### Agenda

- AWS modern data strategy
- KFintech on AWS modern data strategy
- About KFintech and CTO, Venkata Giri
- How KFintech's challenges, business problems solved on AWS
- Key takeaways and learnings



### AWS modern data strategy



#### **Customer voice**

Can we implement a scalable, configurable, and extensible data platform on AWS?

In the past, decision-making revolved around the enterprise data warehouse

Data no longer fits - more data and more diversity of data than people think

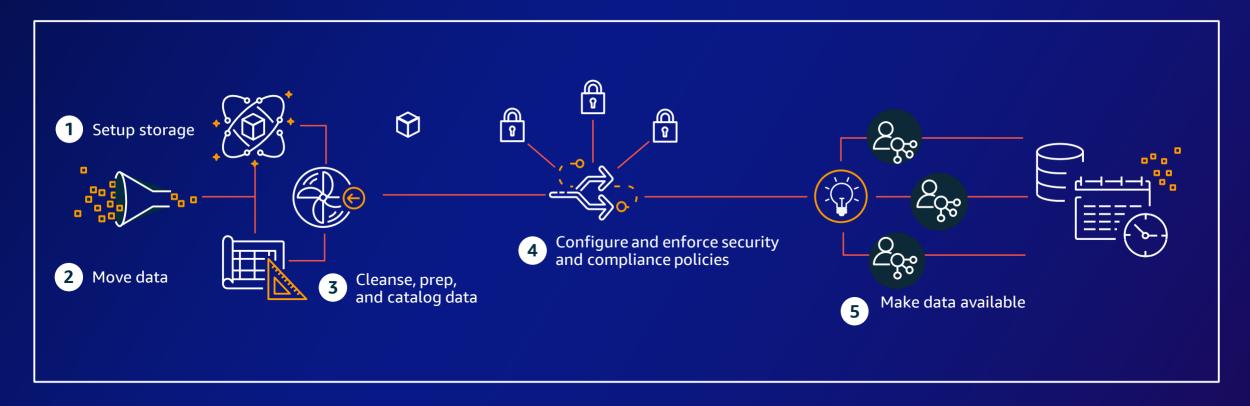
Accessibility of data - more people accessing data, in different ways

More regulatory pressure



### Challenges of implementing a secure data platform

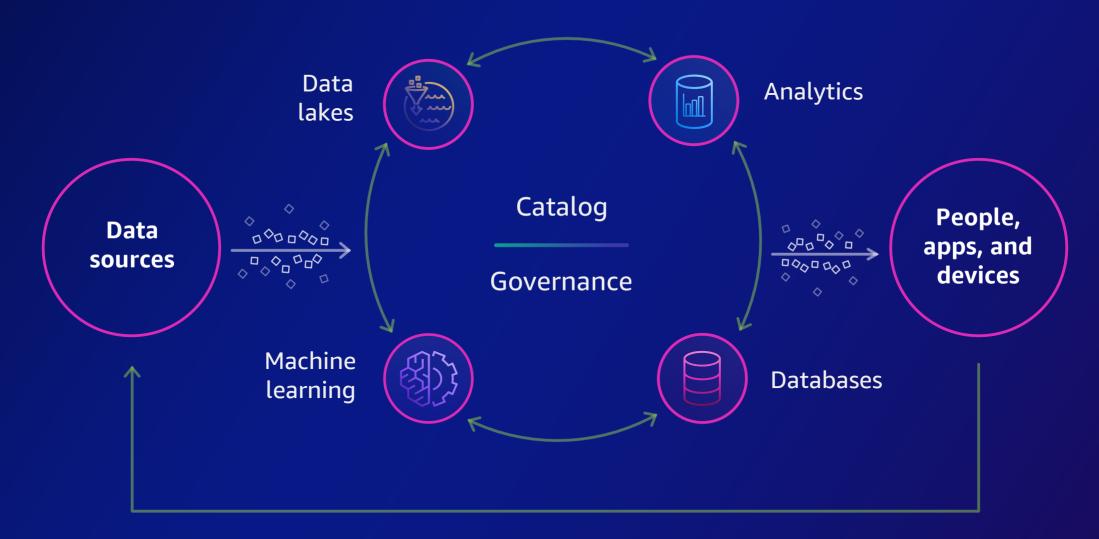
#### Typical steps to build a data platform



#### How can we accelerate this?



### **AWS modern data strategy**



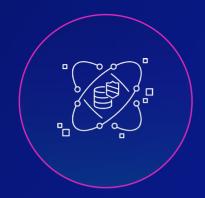


### KFintech on AWS modern data strategy



### KFintech on AWS modern data strategy components











Scalable data lakes

Unified data access, security, and governance

Purpose-built for performance and cost

Serverless and easy to use

Built-in machine learning



## **About KFintech and its journey on AWS**



### **About Me**





Over 25 years of experience in data technologies, I have indepth knowledge of big data ecosystems, complex data ingestion pipelines, data engineering, data processing, and operations. Currently as Chief Technology Officer at Kfintech, I am revamping mutual fund arena with new age data engineering tools and technologies powered with analytics and AI/ML solutions.

#### Career

KFin Technologies Pvt. Ltd – Chief Technology Officer

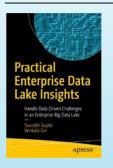
Michelin- Chief Data Architect

GE Digital- Sr. Director (data & Analytics)

Linkedin – Manager Data Engineering

Yahoo – Principal Tech Lead

#### **Books Authored**



#### **About Kfintech**



# Our Story in Numbers

We are the
#1 Corporate
Registrar in India
serving nearly 600
listed and 3000+
unlisted corporates

We currently serve over 300 AIF schemes launched by over 100 fund managers

We help process over 10 lakh transactions per day

We are the #1 RTA in the SEA region. We emerged as the transaction processing platform of choice in South East Asia, serving 23 mutual funds & pension manager clients in Malaysia

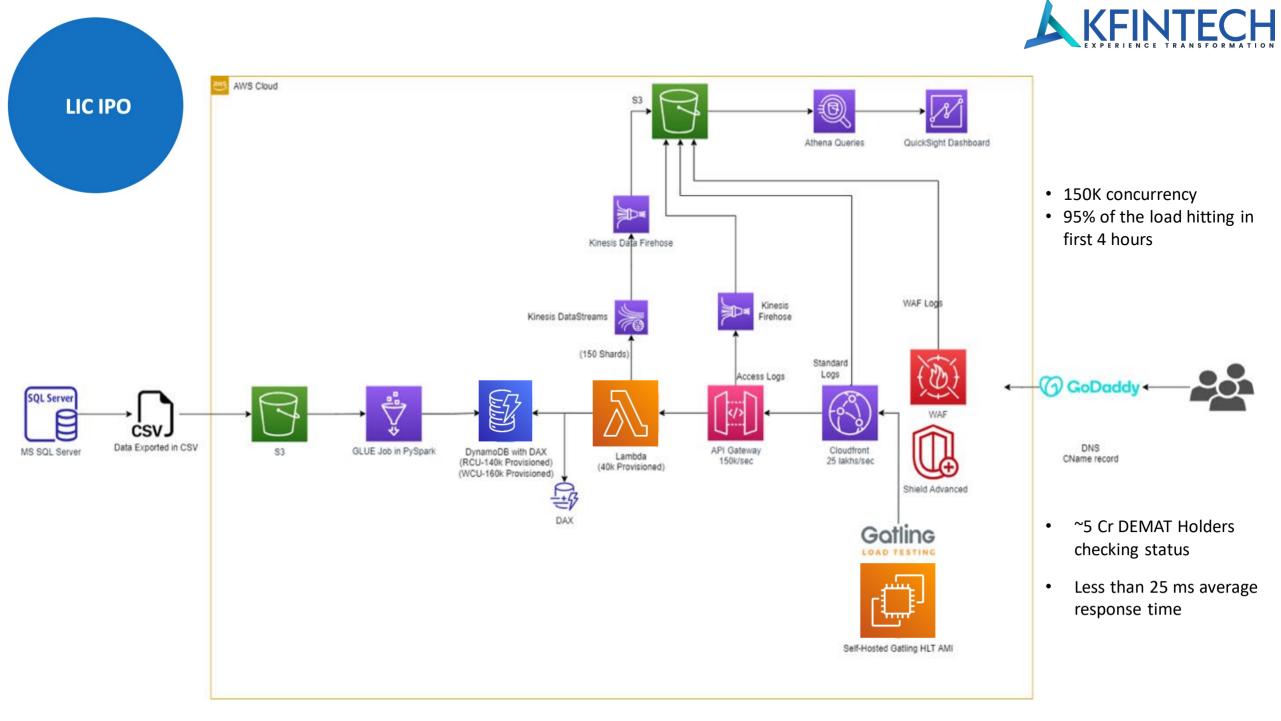
13 crore folios serviced whilst being the backbone to the investor We have been leaders in the Issuer and Intermediary ecosystem in India for nearly 30 years.

We service 27 of the 46 Indian Mutual Fund AMCs

We are **one of only two players** providing
central recordkeeping
services for the National
Pension System in India

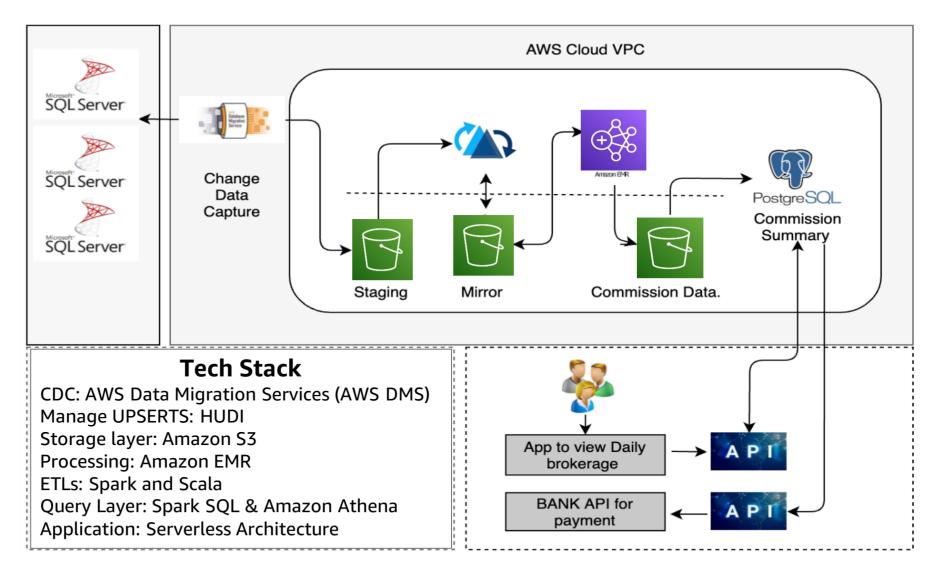
We help manage Assets over 13 lakh crores across all our clients and partners







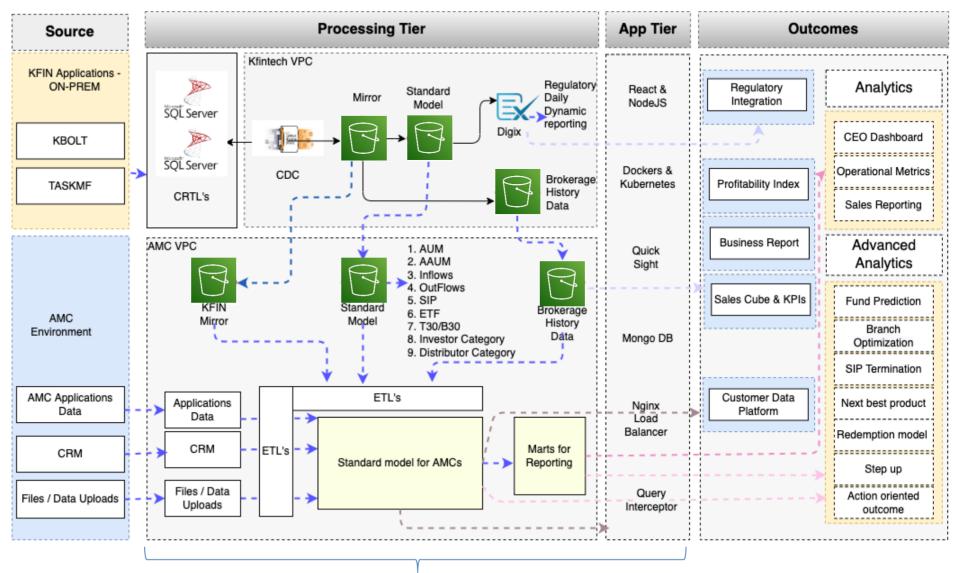












**Managed Service** 

### **Key Learnings**



### Implementation and handling of Change data capture was differentiator on AWS

- No Primary Key defined on source: identify the columns as PKs
- Supplemental Logging full: Log the complete row image updates.
- Manage PK updates with Capture of row Pre-Image
- Compaction of records: makes UPSERTS efficient on the target.
- Bulk Updates on source, causing delay in CDC: resume CDC post bulk handling at source and target.
- Read from DR: Reduce the load on primary RDBMS.
- **Primary Keys updates:** Avoided the duplicity and inconsistencies.
- Avoided inconsistencies when Using Unique key in CDC



## Your time is now

Build in-demand cloud skills your way



# Thank you!

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