AWS INNOVATE DATA EDITION

23 August, 2022



Harness the power of data and choose the right analytics for your use case

Francis McGregor-Macdonald

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Make better decisions, faster





Make better decisions, faster



Respond better to the unexpected





Make better decisions, faster



Respond better to the unexpected



Uncover new opportunities





Make better decisions, faster



Respond better to the unexpected



Uncover new opportunities



Improve efficiencies



Challenges of building a modern data strategy











Growing Exponentially

From new sources

Increasingly diverse

Used by many people

Analyzed by many applications



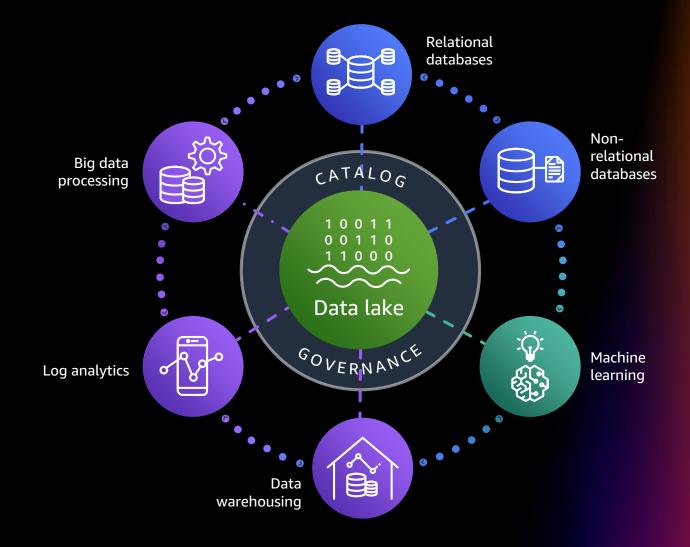
Data at any scale

Unified governance

Purpose built for price and performance

Serverless and easy to use

AI and ML to solve business challenges





Data at any scale





Data at any scale

Unified governance





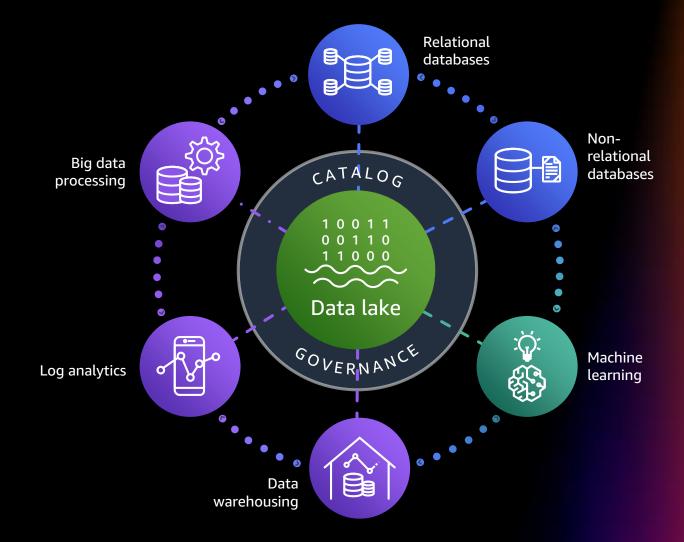
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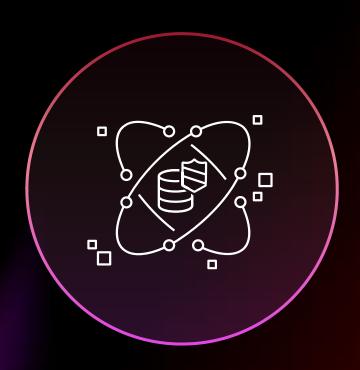
Scalable data lakes



Broadest portfolio of analytics tools







Unified data access, security, and governance



AWS Lake Formation

Row-level security

Data sharing made simple

Tag based access control





AWS Glue

SIMPLE, SCALABLE, AND SERVERLESS



Integrate data faster



Automate at scale



No servers to manage

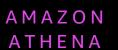




Purpose-built for performance and cost









AMAZON EMR



AMAZON OPENSEARCH SERVICE



AMAZON KINESIS & MSK



AMAZON REDSHIFT



AMAZON QUICKSIGHT

Interactive query

Big data processing

Log and search analytics

Real-time analytics

Data warehousing

Insights discovery and visualization



Amazon Athena

QUERY ALL YOUR DATA USING SQL



Serverless



Open and flexible



Fast and interactive



Cost-effective



Amazon EMR

RUN BIG DATA APPLICATIONS IN THE CLOUD



Fully managed and customizable



Latest open-source releases



Automatically scale up and down



Best price-performance



Amazon OpenSearch Service

SUCCESSOR TO AMAZON ELASTICSEARCH SERVICE



Fully managed



Log and search analytics



Cost-effective



Amazon Kinesis

COLLECT, PROCESS, AND ANALYZE VIDEO AND DATA STREAMS IN REAL TIME



Amazon Kinesis Data Streams



Amazon Kinesis Data Analytics



Amazon Kinesis Video Streams



Amazon Kinesis Data Firehose



Amazon MSK

FULLY MANAGED, HIGHLY AVAILABLE, AND SECURE

Kafka Compatible



Fully managed



Highly available



Secure



Amazon Redshift

ANALYTICS AT SCALE



Performance at any scale



Analyze all your data



Easy analytics for everyone



Amazon QuickSight

FULLY MANAGED, HIGHLY AVAILABLE, AND SECURE

Kafka Compatible



Fully managed



Highly available



Secure





Serverless and easy to use



AWS has the most serverless options for data analytics in the cloud







ML integration



Amazon SageMaker

COMPLETE END-TO-END ML SERVICE



Fully managed



Comprehensive



Secure



AWS brings ML closer to data







Data warehouses + data lakes



Business intelligence tools

AMAZON AURORA ML

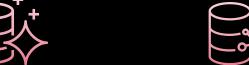


AMAZON NEPTUNE ML

AMAZON REDSHIFT ML

AMAZON ATHENA ML

AMAZON QUICKSIGHT ML











Modern data strategy on AWS

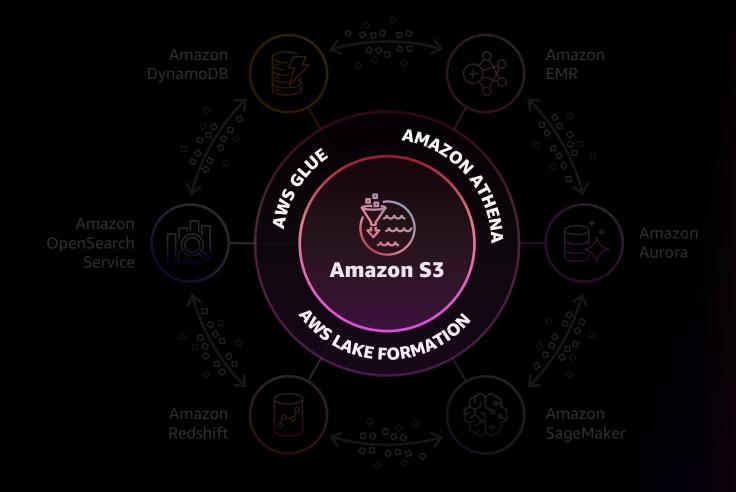
Fictious Company





Modern data strategy on AWS

ANY COMPANY





Modern data strategy on AWS ANY COMP.



Answer business questions "Avg trip duration" "Most popular location" "Revenue by state"



Making better decisions, faster



Modern data strategy on AWS



Predict how many bikes will be required at each station per day

ANY COMPANY



Improve efficiency



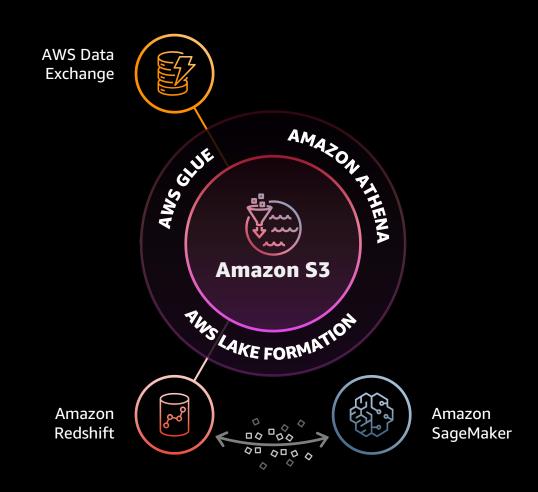
Modern data strategy on AWS ANY COMP



Provide riding statistics to external consumers / data monetization



Uncover new opportunities

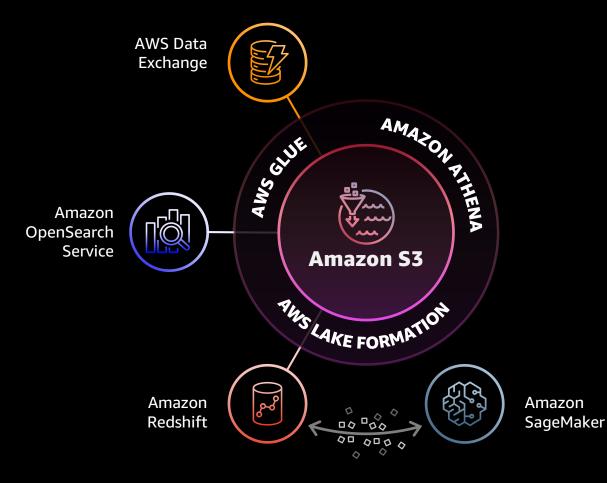


Modern data strategy on AWS





Real-time trip monitoring and anomaly detection





Respond to the unexpected





Scalable data lakes







Scalable data lakes

Unified data access, security, and governance









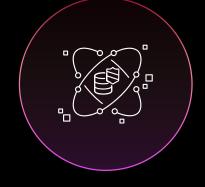
Scalable data lakes

Unified data access, security, and governance

Purpose-built for performance and cost











Scalable data lakes

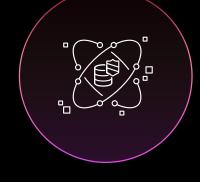
Unified data access, security, and governance

Purpose-built for performance and cost

Serverless and easy to use













Scalable data lakes

Unified data access, security, and governance

Purpose-built for performance and cost

Serverless and easy to use

Built-in machine learning



AWS analytics sessions

- Black belt tips: Operating at scale with your data in an Amazon S3 data lake
- Data governance at scale on AWS
- Simplify data integration with AWS Glue
- Deliver insights faster with AWS Glue interactive sessions and continuous delivery
- SQL-based stream processing at scale with Apache Kafka and Apache Flink
- Observability made easy with Amazon OpenSearch Service
- Migrate big data workloads to AWS with Amazon EMR

- Unleash your organization's data analytics potential with Amazon Redshift
- Unlocking analytics capability by migrating your legacy database to an Amazon Redshift data warehouse
- Accelerate your time-to-insight with Amazon Redshift streaming
- Build highly scalable and extensible SQL-based data pipeline using Managed Workflow for Apache Airflow and Amazon Redshift
- Go beyond insights to predictive analytics with Amazon Redshift ML and Amazon SageMaker
- Data virtualization and unifying disparate data sources with Amazon Athena
- Embedding insights within your applications with Amazon QuickSight



Visit the AWS Data resource hub

A modern data strategy can help you manage, act on, and react to your data so you can make better decisions, respond faster, and uncover new opportunities. Dive deeper with these resources today.

- Harness data to reinvent your organization
- In unpredictable times, a data strategy is key
- Make data a strategic asset
- Rewiring your culture to be data-driven
- Put your data to work with a modern analytics approach
- ... and more!

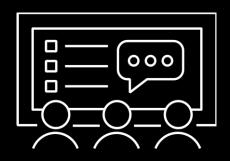


https://tinyurl.com/data-hub-aws

Visit resource hub



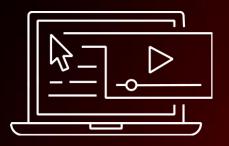
AWS Training and Certification for Data and Analytics



AWS Data & Analytics FREE Training Resources

Discover how to harness data, one of the world's most valuable resources, and innovate at scale.

https://bit.ly/3Ntlhy7



AWS Data Analytics Learning Plan

This learning plan expose you to the fastest way to get answers from all your data to all your users. It can also help prepare you for the AWS Certified Data Analytics -Specialty certification exam.

https://bit.ly/3wBVjD1



AWS Certified Data Analytics - Specialty

Earning AWS Certified Data
Analytics – Specialty
validates expertise in using
AWS data lakes and analytics
services.

https://go.aws/3lwFORR



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Thank you!

