

AWS Quick Start

Automate Business Insights on AWS - Simple, Fast, and Secure Analytics Platforms



Entering the cloud-generation of analytics platforms

Speed



- Move like startups
- Responsive customer service
- Instant provisioning

Enablement



- Cross-business insight
- Keep preferred tools
- Openness vs governance

Efficiency



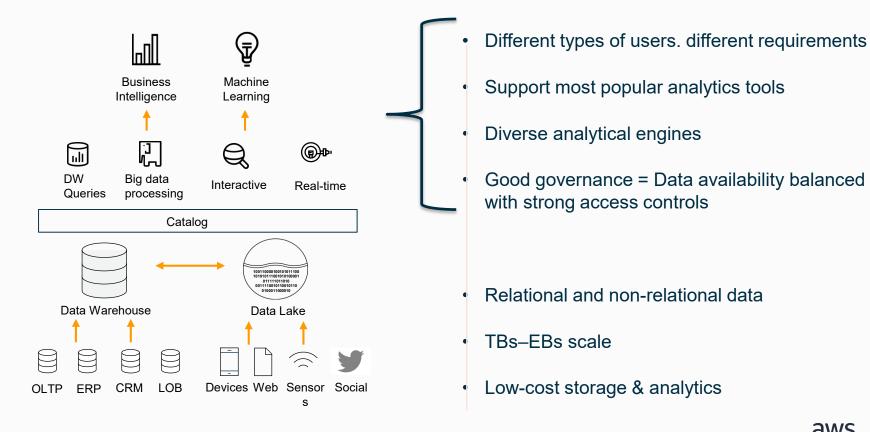
- Fully-managed / serverless services
- Usage-based cost
- Scale / elasticity



New use cases for cloud-generation analytics

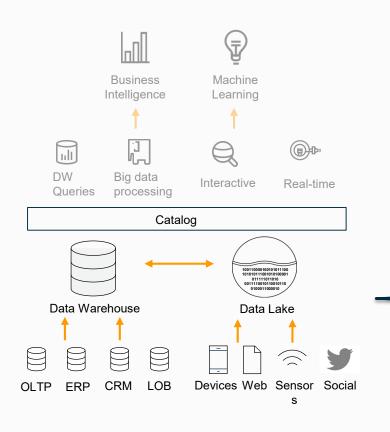
Industry	Use cases	Customers
Financial services	Analyze trading and market data, risk analyses, fraud detection	Nasdaq
Healthcare	Analyze clinical records to improve patient outcomes and predict diseases for preventive programs	Pfizer
Advertising	Analyze clickstream and ad impression logs to improve ad targeting	groupm
Gaming	Aggregate data from games and players and analyze in-game behavior	WARNER BROS.
Travel/ Hospitality	Create personalized experiences and offers for customers	Hilton aws

Cloud-generation analytics platforms - the foundations





AWS fully-managed services relieve heavy lifting



80%+ of time and costs are consumed by data preparation with traditional approaches

AWS uses machine learning (ML) and automation to relieve the heavy lifting

- Performance at scale
- Discoverability
- Access controls
- Security application
- Data partitioning
- Data load
- Data extraction
- Data profiling





Amazon Redshift Amazon EMR





AWS Glue

AWS Lake Formation





More customers use



for their data warehouse workloads than anyone else





































































Amazon Redshift, the most used cloud

Fast, simple, cost-effective data warehouse that can extend queries to your Data Lake

- ✓ Works with most popular BI tools and applications
- ✓ Supports rapid data growth with the best priceperformance
- ✓ Works together with other analytical engines (Hadoop, ElasticSearch, Presto, Spark)
- ✓ Works with a variety of relational, non-relational data types in open formats (Parquet, ORC, JSON)
- ✓ Provides the elasticity and cost efficiency of the cloud so you can scale confidently and securely

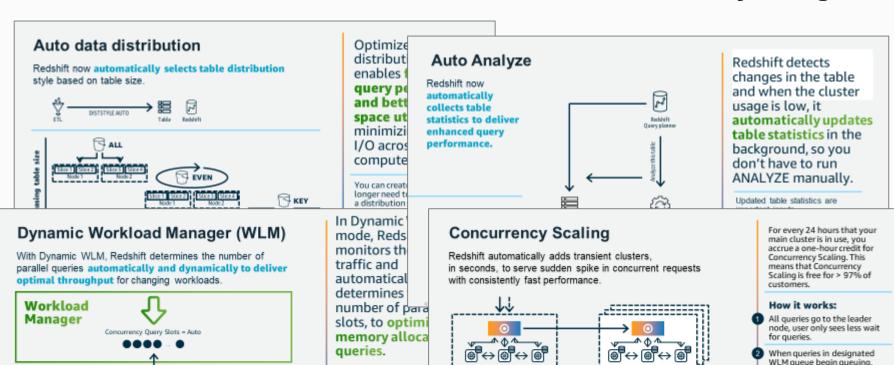


Amazon Redshift

Amazon Redshift enables you to break through your data silos by allowing data to be analyzed directly in the Amazon S3 data lake with no data movement



Redshift "Out-of-box" ML and automation to relieve heavy lifting



Redshift has a sophistical

WLM which enables you

assign queries to queues

allocate memory resour

This feature will be in

beta in Dec'18 and avail

in all regions in O1'19.

queues.

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Leader Node

Redshift

Cluster

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Caching Layer

Redshift automatically routes

enabling Concurrency Scaling

Redshift automatically spins up a

new cluster, processes waiting

down the Concurrency Scaling

queries and automatically shuts

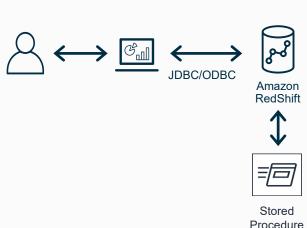
them to the new clusters.

automatically.

cluster.

Run Stored Procedure in Redshift

Redshift now supports running Stored
Procedure. This makes migration to Redshift easier, you can bring your existing Stored
Procedure and avoid having to convert them



Stored Procedure provide the ability to efficiently run code where the data is. Many customers have used them to build business logic.

Redshift now supports Stored Procedure in PL/pgSQL format. This allows you to bring your existing Stored Procedure to Redshift and run them close to the data.

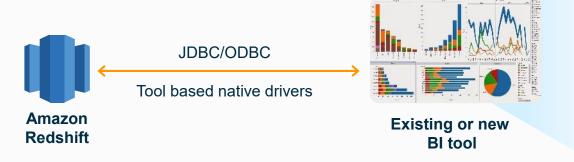
Coming Soon: Preview in Q1'19.



Amazon Redshift is Integrated

Use Your Existing BI Tools

Use your existing cloud/on-premises Business Intelligence (BI) Tools







Demo - Automating updates to Business Analysts



Our customers invest in a data lake for...

Data-driven business



Open access to business users - contextual and highly governed

Speed to market



Agile, iterative design - launch new products and services quickly

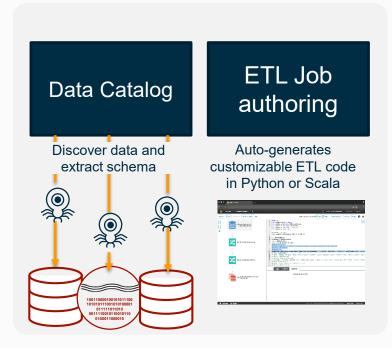
Culture of experimentation



Use machine learning / data science to model and predict events



AWS Glue - Serverless Data Catalog & ETL Service



Automatically discovers data and stores schema

Data is immediately searchable, and available for ETL

Automatically generates customizable code

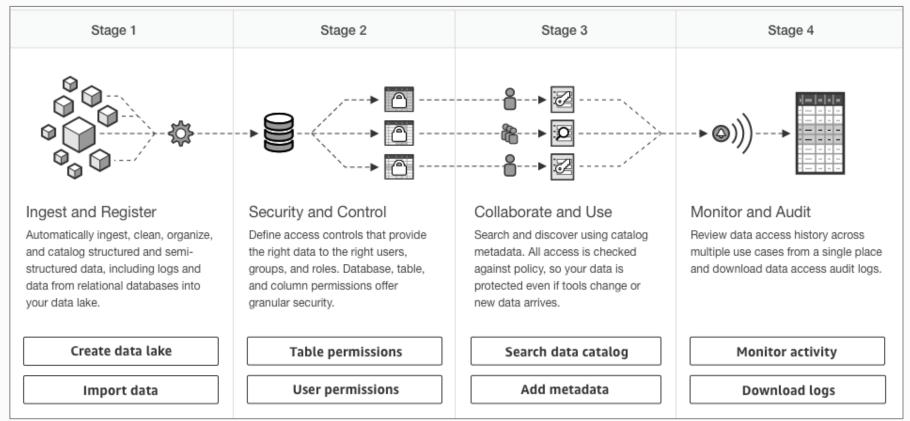
Schedules and runs your ETL jobs

Serverless



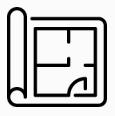
AWS Lake Formation (Preview)

Build a secure data lake in days



AWS Lake Formation relieves data lake heavy lifting

Loading Data



 Blueprints / Data Importers - templates for data ingestion, ETL, metadata (schema) and partition management



 ML Transformations – ML algorithms customers can use to create their own ML Transforms (e.g. record de-duplication, match finding)



AWS Lake Formation relieves data lake heavy lifting

Discoverability and Governance



 Enhanced governance layer - security and governance layer at the Data Catalog level



 Enhanced Data Catalog - enable users to record more metadata and tag Data Catalog objects (i.e. databases, tables, columns)



Demo - Filling the data lake



Serving personas with broad and deep information needs

Structure and Schema **Business users Business analysts Data analysts Data scientists**

Context / Enrichment



Serving business cases from a value-focused data lake

and Schema Structure

ERP

CRM

Mobile transactions

Server logs

LANDING ZONE

Sensor data

Clickstream

Audio streams

Video streams

Sales transactions

Production data

Inventory change

CURATED DATASETS

Acquisition/retention

Customer feedback

Image metadata

Financial reports

Dashboards

Demand forecast

Scheduling

BUSINESS-READY

Impact analysis

Robotic automation

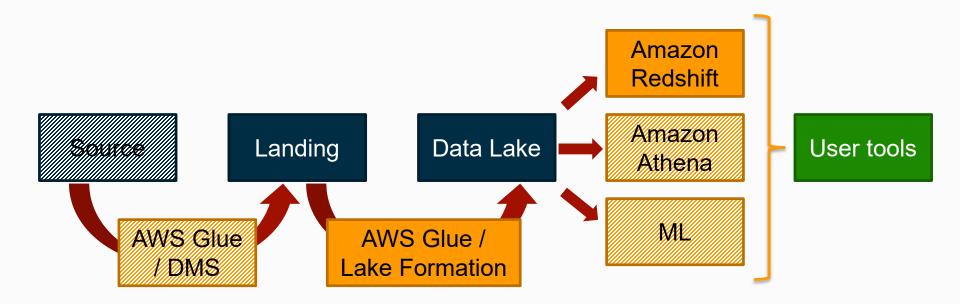
Zone control

Context / Enrichment



A common starter cloud-generation analytics platform

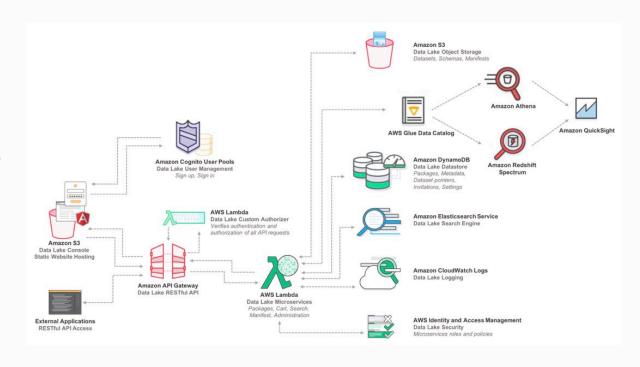
Launch quickly, then expand users and sources





AWS Solution Builder - Data Lake on AWS

- Reference Architecture deployment via CloudFormation
- Configures core services to tag, search and catalogue datasets
- Deploys a console to search and browse available datasets



https://aws.amazon.com/solutions/data-lake-solution/



Learn



- Visit the <u>Redshift website</u> https://aws.amazon.com/redshift/
- Watch the Redshift sessions from re:Invent 2018 featuring <u>Dow Jones</u>, <u>McDonald's</u>, <u>Intuit</u>, and <u>Equinox Fitness</u>
- Read on <u>DW Modernization</u> https://aws.amazon.com/redshift/d ata-warehouse-migration/

Try



- Start <u>free with the 2</u> <u>month trial</u>
- <u>Launch a cluster</u> with sample data
- Set up a <u>POC with the</u> guide-book

Deploy



- Self-service: Migrate to Redshift using <u>Data</u> <u>Migration Service</u> and <u>Schema Conversion tool</u>
- Work with a partner



Thank You for Attending AWS Quick Start

We hope you found it interesting! A kind reminder to **complete the survey.**Let us know what you thought of today's event and how we can improve

the event experience for you in the future.

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