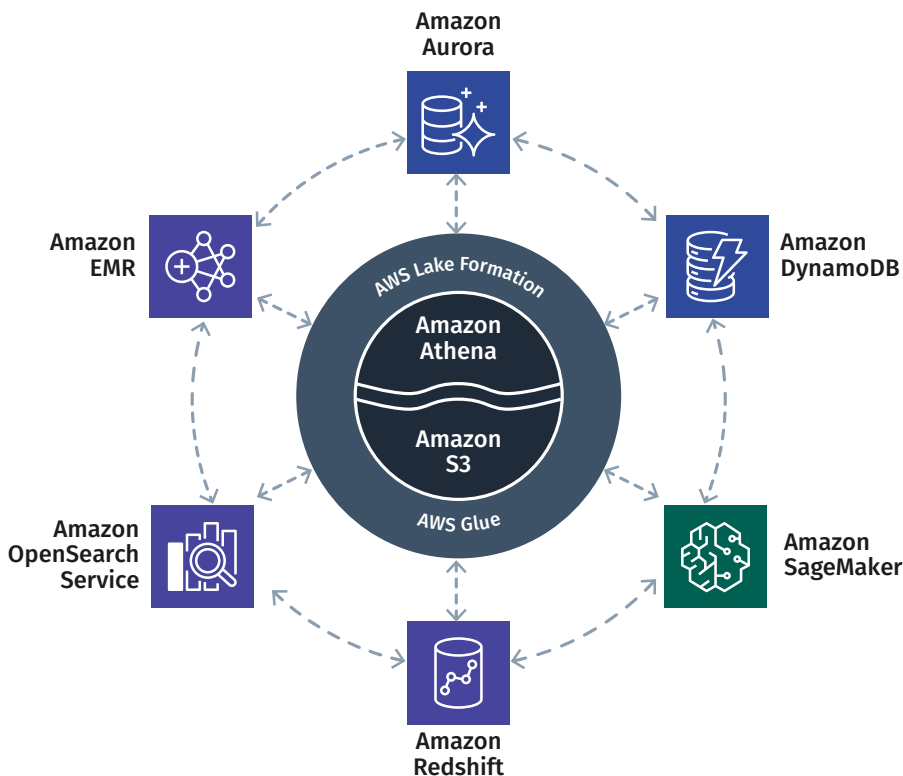# AWS Data Warehouse Modernization

Build next-gen Lakehouse architectures

Data is everywhere and compounding in size every day. As the number of devices deployed and generating data grow exponentially, the sheer volume, variety and speed at which data is created and consumed creates challenges.

The key to delivering value from this data is a modern data strategy, combined with a cloud-based data platform, modern data storage and services. The companies that successfully leverage big data are seeing their profits increase by 10% while, at the same time, reducing costs. A modern data strategy includes a robust architecture and set of tools to create an optimal solution.

Amazon Aurora · Amazon DynamoDB · Amazon SageMaker · Amazon Redshift · Amazon OpenSearch Service · Amazon EMR · AWS Lake Formation · Amazon Athena · Amazon S3 · AWS Glue

Modern Data Architecture includes

- Scalable data lakes
- Purpose-built data services
- Seamless data movement
- Unified governance
- Better performance and cost efficiency

Business Challenges:

- Data Silos spread across different environments, clouds and applications within an organization and supporting third parties and suppliers.
- Inability to support business needs due to inflexible, non-scalable environments.
- Slow innovation moving from reactive to predictive insights. Time is spent on maintenance and non-value adding administrative chores.

blacklinesafety

Blackline Safety needed a high-volume data streaming and processing infrastructure to support its growing safety solutions portfolio.

By migrating to AWS, data rate reporting from connected wearables increased and support was provided for the launch of a contact tracing solution that helped respond to COVID-19.

teva

Teva needed a scalable platform that could support its entire Digihaler portfolio while keeping patient data secure. The platform needed to integrate with patient and caregiver companion applications to record and store the objective inhaler event data that fosters patient and healthcare provider dialog and helps to improve overall outcomes.

The solution allows the system to fully leverage the best-of-breed cloud capabilities of AWS and allows for extreme scalability, resiliency and cost-effectiveness in AWS.

Take the Next Step

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- Lack of control over data and management systems bring failures in data security and compliance.
- Organizations struggle with data quality issues such as duplicate and inaccurate data that was generated from poorly designed ETL and ELT processes.
- Data-driven companies need skilled data professionals, but they often don't have the expertise on staff or can't retain and manage top talent.
- The management of on-prem solutions requires a lot of expenses. Costs can include new hardware, development, configuration, maintenance, and training.

Onica by Rackspace Technology can help organizations define the right data warehouse and governance model tailored for the long-term data strategy of their business. Following the data lab model, the data warehouse modernization solution can be delivered in two engagements offers.

About Onica by Rackspace Technology™

- 2,500+ AWS accreditations
- 15 AWS Service Delivery Designations
- AWS 2021 Migration Partner of the Year (U.S. and Canada)

Expertise Across 15 AWS Competencies

- Data & Analytics
- DevOps
- Education
- Financial Services
- Healthcare
- Industrial Software
- IoT
- Machine Learning
- Microsoft Workloads
- Migration
- Oracle
- Retail
- SaaS
- Storage
- Travel & Hospitality

Discovery	Data Discovery Session
2 days	An Onica data specialist will join you on a discovery call to get an understanding of how you leverage data in your business today and understand the challenges of your current data environment. We'll discuss: • Where your data is stored • What technologies you are currently leveraging • Understand the challenges of your current data environment • How that data could be fully leveraged across your organization
Design	**Data Warehouse Assessment**
Varies	With an Onica expert-led architecture assessment and roadmap aligned to your business objectives, the team will assess your current systems – from data ingestion to visualization. Our experts will determine the technical and business requirements for a modern data platform and design a solution that demonstrates the possibilities for your business. The assessment includes: • Review of data sources, data model, security and ingestion requirements • Review and ideate on priority business use cases • Gaining an understanding of workloads of data from visualization and reporting to enable AI/ML workloads • Overview of AWS Data Analytics services and capabilities • Building a modern data strategy focusing on best-fit AWS architectures • Solution development, high-level architecture and roadmap
Launch	**Data Warehouse Modernization Accelerator**
40-60 days	A production-ready data warehouse solution includes data infrastructure, data ingestion and processing, data modeling and schema development to automate business workflows and enable easy access to data. The modernization accelerator includes: • Architect and build the designed solution • Design ingestion patterns, data pipelines, schema and data models • Transform and load data from source systems, structured and unstructured data sources and 3rd party data sets • Integrate and build end-to-end data pipelines • Data quality, validation controls and data cataloging • Query optimization and analysis • Build visualizations and dashboards and enable real-time data refreshes • Process documentation and knowledge transfer
Deliverables	

- Detailed design document and architecture diagrams
- Automation, data pipelines and transformation code
- Schema, SQL code, templates and data catalogs
- BI reports and dashboards

AWS PARTNER
Premier Tier Services

Amazon Redshift **Amazon QuickSight** **AWS Glue**

AWS Lake Formation **Amazon EMR** **Amazon Athena**

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