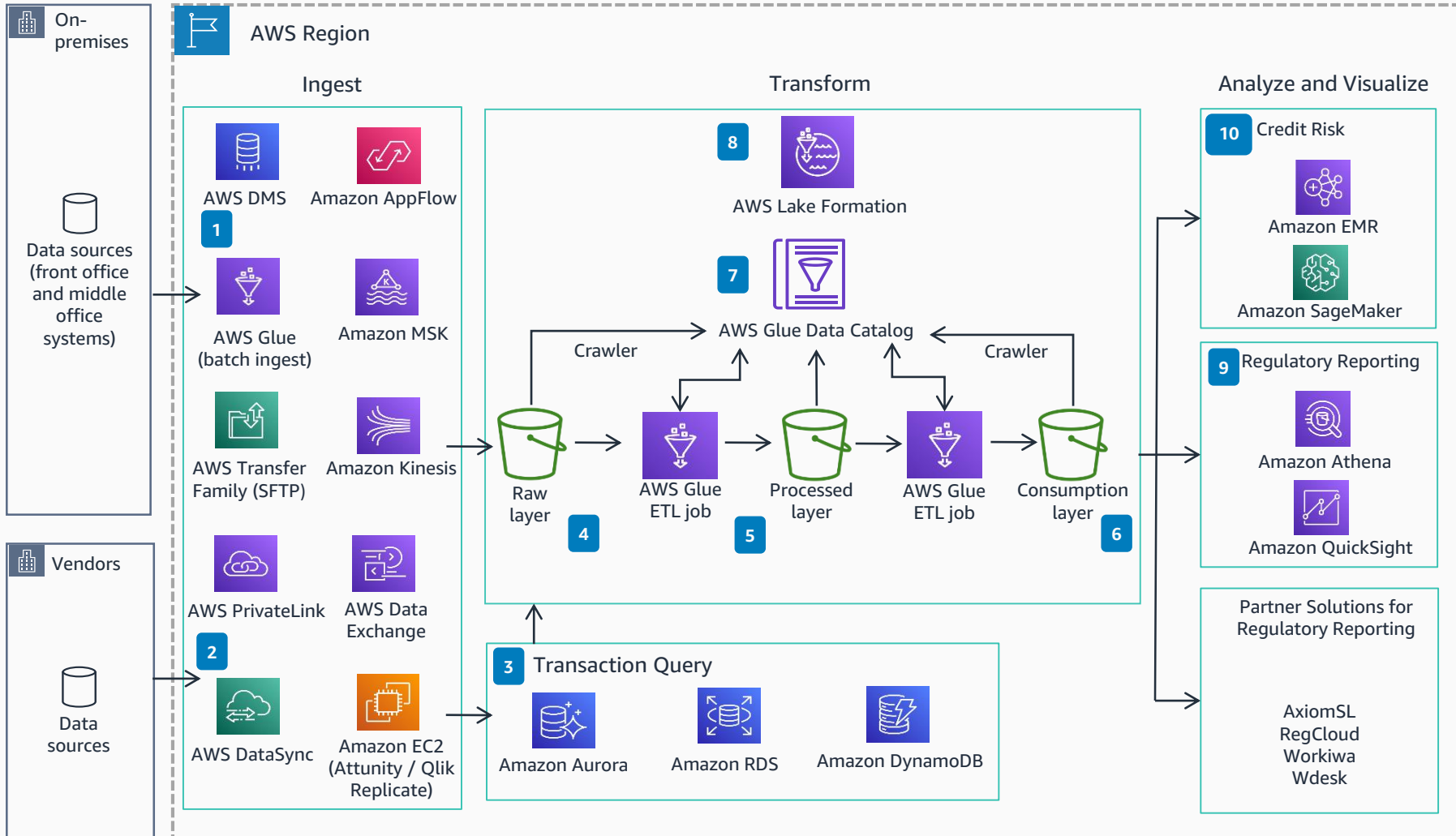


Guidance for Financial Regulatory Reporting on AWS

This reference architecture shows how to build a data analytics platform on AWS for improved regulatory reporting.



- 1** Ingest on-premises data using services such as **AWS Database Migration Service (AWS DMS)** for databases, **AWS Glue** for batch data, or **Amazon Managed Streaming for Apache Kafka (Amazon MSK)** for streaming data.
- 2** Access vendor data by connecting to the vendor account directly using **AWS PrivateLink** or by using services such as **AWS Data Exchange** and **AWS DataSync**.
- 3** Replicate transaction data from data sources on AWS (such as **Amazon Aurora**, **Amazon Relational Database Service [Amazon RDS]**, or **Amazon DynamoDB**) to a **Amazon Simple Storage Service (Amazon S3)** bucket using a service such as **AWS DataSync**.
- 4** All the data is stored as-is in the raw layer without undergoing any changes.
- 5** Data undergoes basic transformations in the processed layer, such as normalizing the date to a certain format or cleaning up empty rows.
- 6** The consumption layer contains the final “cleansed” copy of the data to be used across a number of different use cases, including regulatory reporting.
- 7** **AWS Glue Data Catalog** provides a view of the metadata of all the data across the different **S3** buckets.
- 8** **AWS Lake Formation** centrally manages access to the available datasets and applies fine-grained permissions for all users accessing the data.
- 9** Use **Amazon QuickSight**, a data visualization and business intelligence service, for reporting. Use **Amazon Athena** for interactive analytics.
- 10** Use services such as **Amazon EMR** and **Amazon SageMaker** for credit risk calculations and forecasting.

