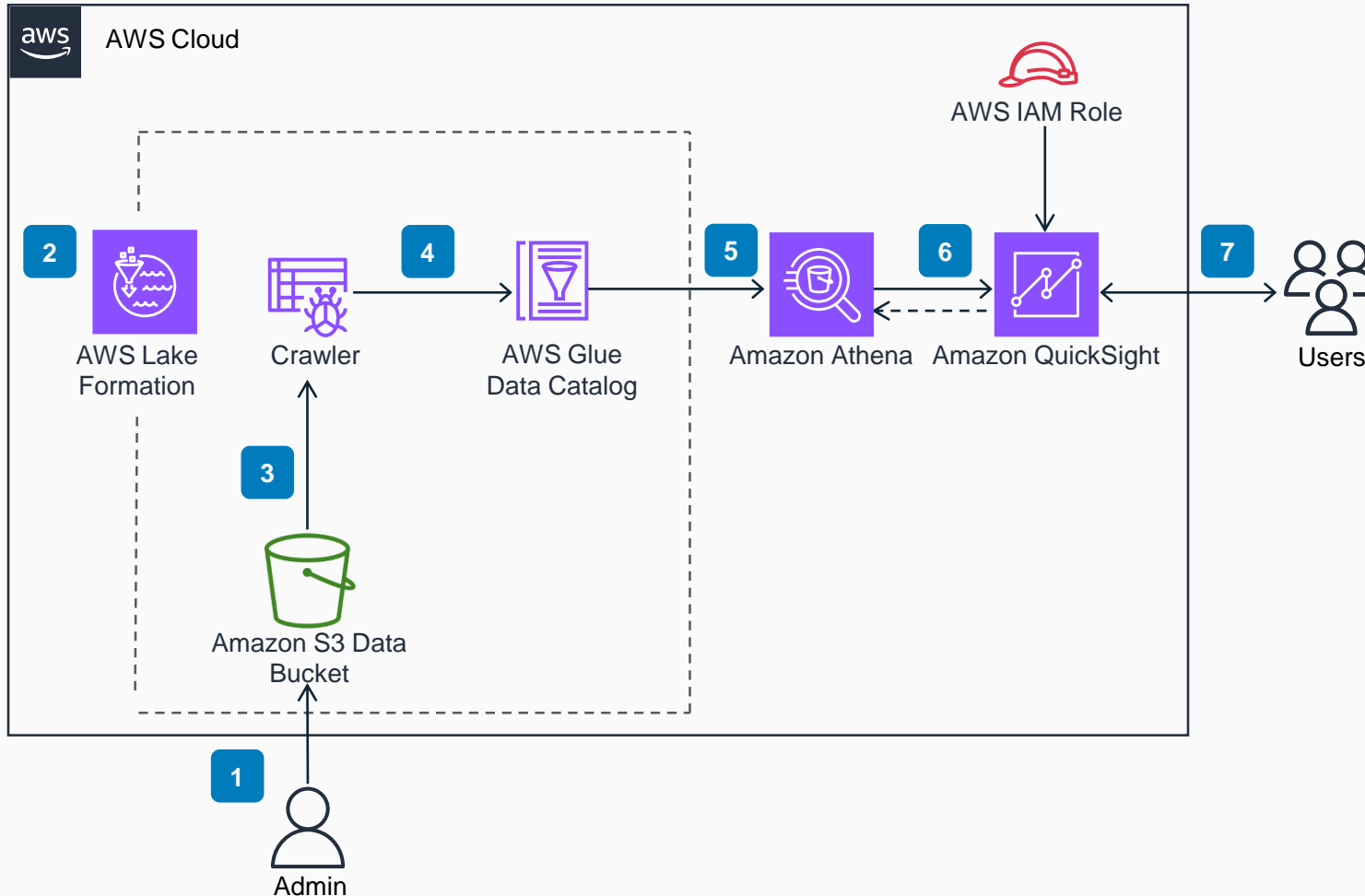


Guidance for Accelerating Analytics on AWS

This Guidance helps you quickly deploy a data analytics stack using AWS services. In this diagram, an administrator creates a storage bucket and uploads files that can be processed for data analysis and visualization.



- 1 An administrator creates a new **Amazon Simple Storage Service** (Amazon S3) data bucket, and uploads flat files that will be visualized in **Amazon QuickSight**.
- 2 **AWS Lake Formation** registers the **Amazon S3** data bucket as a resource, and allows access to an **AWS Identity and Access Management** (IAM) role used by **QuickSight**.
- 3 An **AWS Glue** crawler crawls the **Amazon S3** data bucket to obtain metadata of the user data. The crawler runs everyday on a schedule to update the Table metadata if new data is available in the bucket.
- 4 The crawler updates the metadata in an **AWS Glue Data Catalog** as a Database and Table, with permissions managed by **Lake Formation**.
- 5 **Amazon Athena** queries the Table using SQL queries issued by **QuickSight** when visuals are loaded.
- 6 A **QuickSight** subscription is created if it does not exist. A new **QuickSight** Dataset and Analysis is created using the **IAM** role to issue queries to **Athena** and access the data in the **Amazon S3** bucket.
- 7 You can access **QuickSight** analysis and start creating visuals to gain insight about your data.

