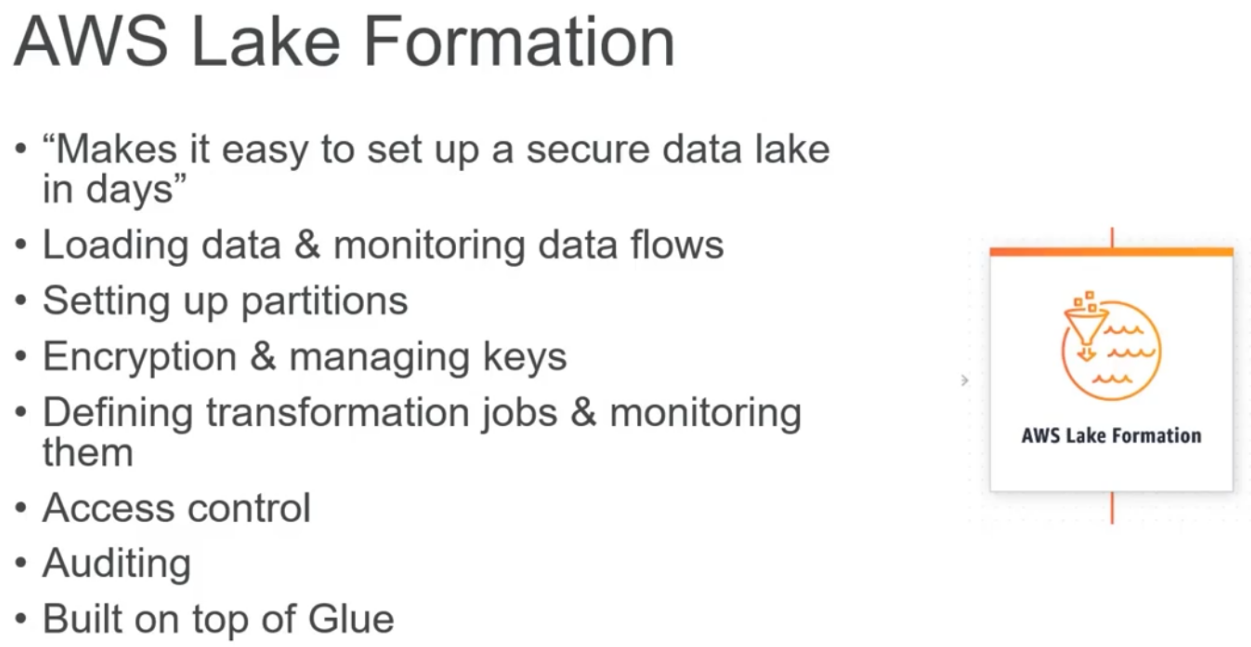
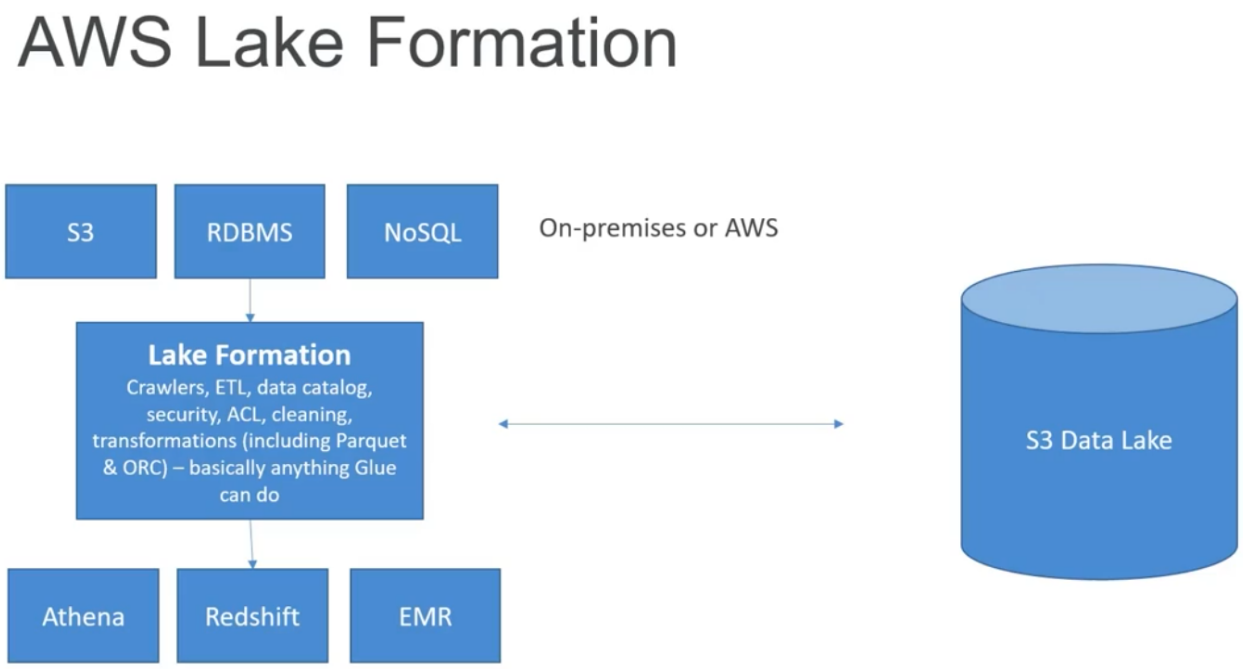
Aws lake formation

aws lake formation you can secure data lake in a days

you cannot create a data lake in day it takes to more than week are more than few days



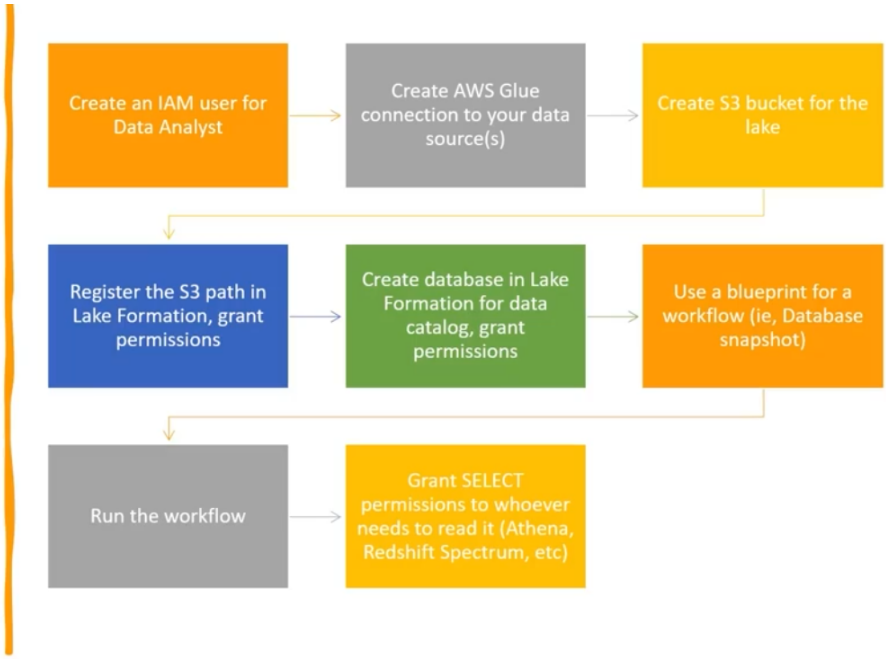


after create lake formation you can access are query the data using redshift athe are emr (emr also access the data lake to query using hive ,spark , etc..)

AWS Lake Formation: Pricing

- No cost for Lake Formation itself
- But underlying services incur charges
  - Glue
  - S3
  - EMR
  - Athena
  - Redshift

AWS Lake Formation: Building a Data Lake



AWS Lake Formation: The Finer Points

- Cross-account Lake Formation permission
  - Recipient must be set up as a data lake administrator
  - Can use AWS Resource Access Manager for accounts external to your organization
  - IAM permissions for cross-account access
- Lake Formation does not support manifests in Athena or Redshift queries
- IAM permissions on the KMS encryption key are needed for encrypted data catalogs in Lake Formation
- IAM permissions needed to create blueprints and workflows

AWS Lake Formation: Governed Tables and Security

- Now supports “Governed Tables” that support ACID transactions across multiple tables
  - New type of S3 table
  - Can’t change choice of governed afterwards
  - Works with streaming data too (Kinesis)
  - Can query with Athena
- Storage Optimization with Automatic Compaction
- Granular Access Control with Row and Cell-Level Security
  - Both for governed and S3 tables
- Above features incur additional charges based on usage

Data Permissions in Lake Formation

- Can tie to IAM users/roles, SAML, or external AWS accounts