Data Pipeline & Data Lake

(in Google Cloud)

Megazone Google Cloud Team

Jung hoo Park



Agenda

- What is a Data Pipeline?
- Data Engineering in Google Cloud

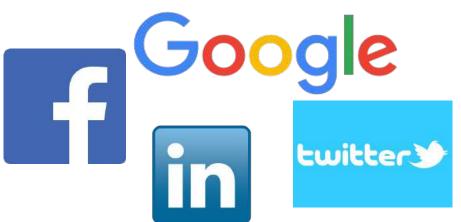


What is a Data Pipeline?





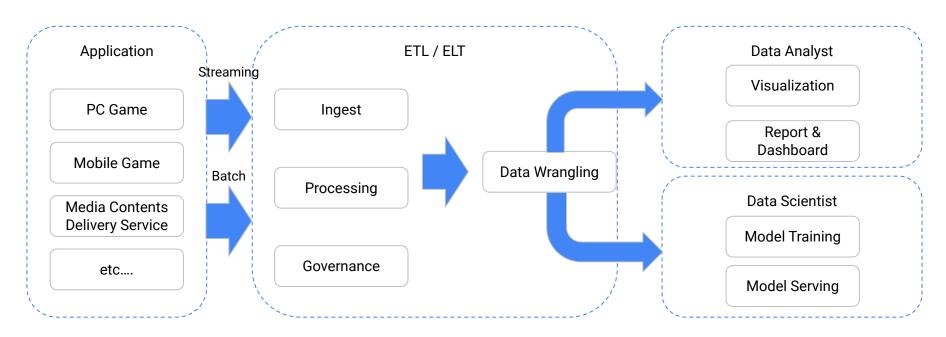








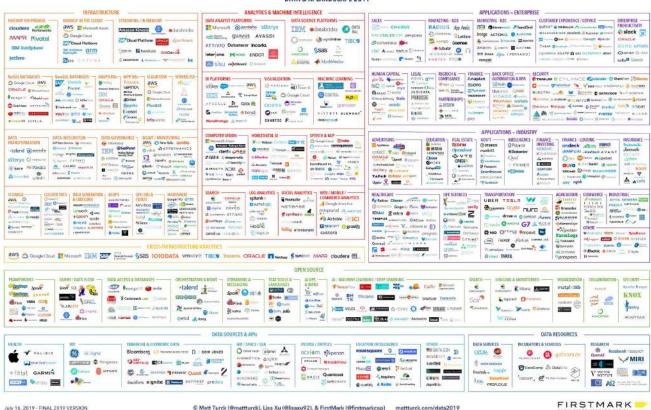
Conceptual Data Pipeline







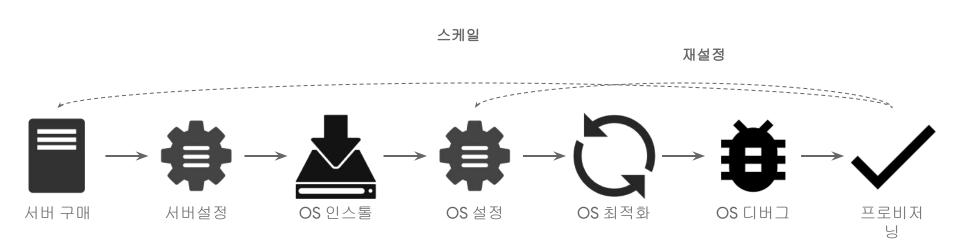
DATA & AI LANDSCAPE 2019







일반적인 데이터 처리 환경 프로비저닝









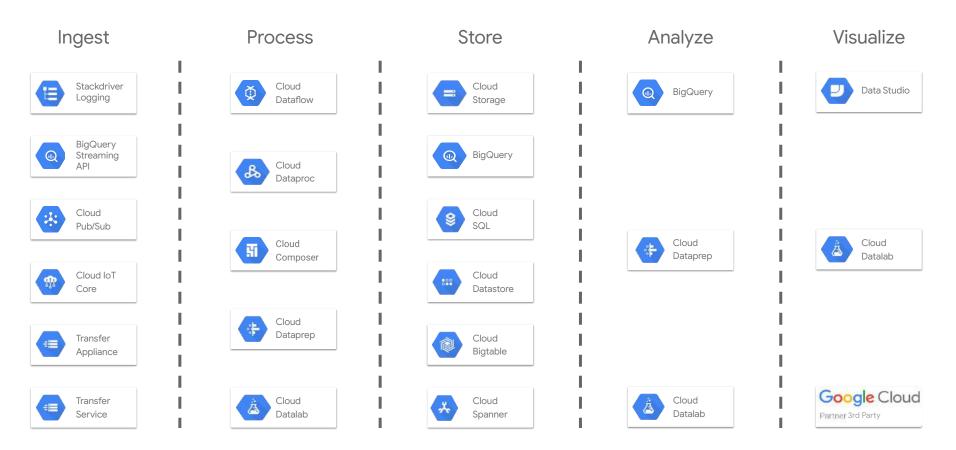




Google Cloud Service for Data Pipeline

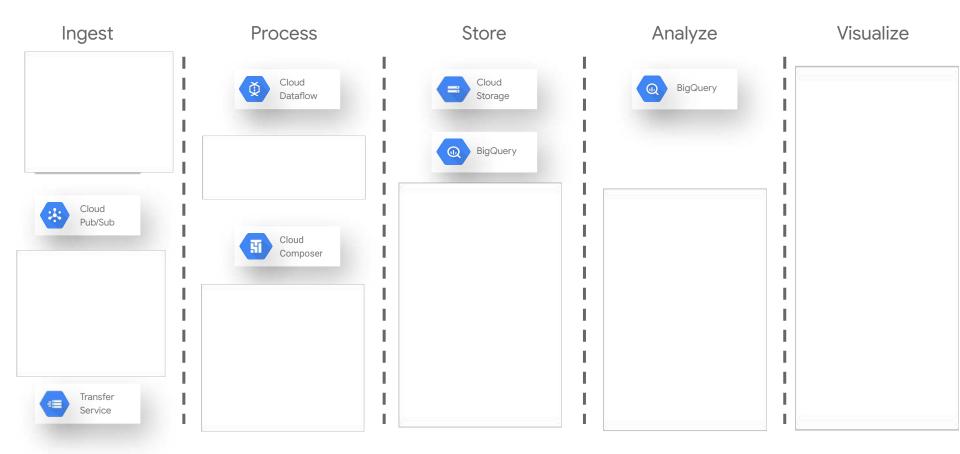
















Ingest









Cloud Pub/Sub





No provisioning, auto-everything









Storage Transfer Service



Transfer data from cloud to cloud

Transfer data from bucket to bucket

Centralized job management

High-performance copies

Data security



Processing









Cloud Dataflow



















Cloud Composer





Hybrid

Integration

Python Language

Fully-Managed





Store & Analyze









Cloud Storage







Retention Policies

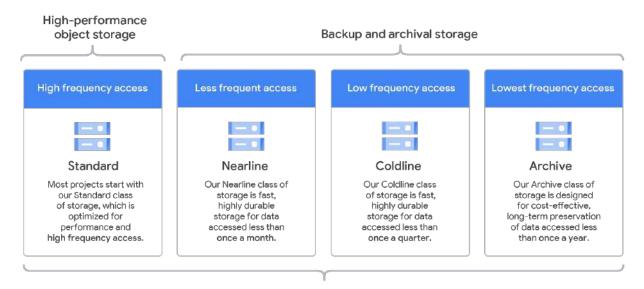
Pub/Sub Notifications for Cloud Storage

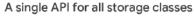
Customer-managed encryption keys

Cloud Audit Logs with Cloud Storage



Google Cloud Storage Class



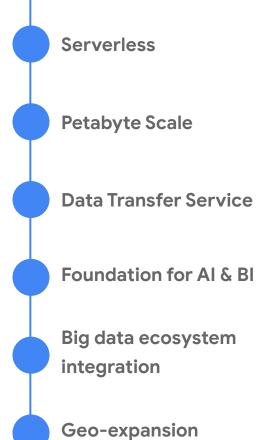














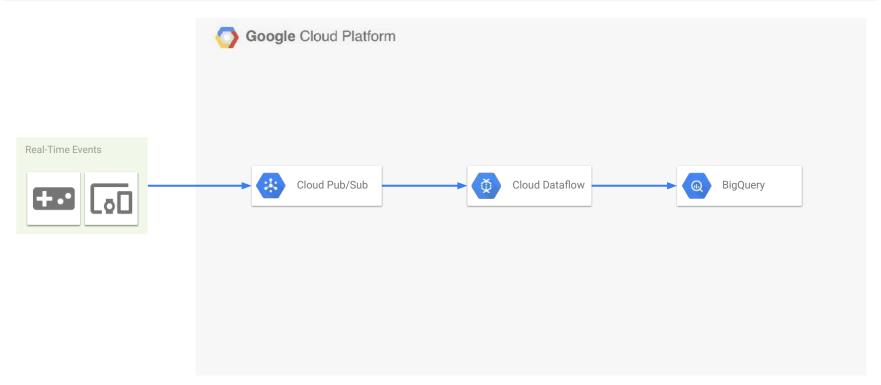


Demo





Architecture: Demo Scenario









Thank you

