

The Data Dossier

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Choose a Lesson

Data Lifecycle

Batch and Streaming Data

Cloud Storage as Staging Ground

Database Types

Monitoring Unmanaged Databases



Cloud Storage as Staging Ground



Next

Storage 'swiss army knife':

- GCS holds all data types:
 - All database transfer types, raw data, any format
- Globally available:
 - Multi-regional buckets provide fast access across regions
 - Regional buckets provide fast access for single regions
 - Edge caching for increased performance
- Durable and reliable:
 - Versioning and redundancy
- Lower cost than persistent disk
- Control access:
 - Project, bucket, or object level
 - Useful for ingest, transform, and publish workflows
 - Option for Public read access

Data Engineering perspective:

- Migrating existing workloads:
 - Migrate databases/data into Cloud Storage for import
- Common first step of data lifecycle get data to GCS
- Staging area for analysis/processing/machine learning import:
 - 'Data lake'

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Getting data in and out of Cloud Storage

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Storage Transfer Service - S3, GCS, HTTP --> GCS:

One time transfer, periodic sync

Data Transfer Appliance - physically shipped appliance:

- Load up to 1 petabyte, ship to GCP, loaded into bucket
- gsutil, JSON API "gsutil cp ..."

