# INTRODUCTION TO GCP STORAGE

- Storage is one of the basic building blocks
- Storage services provides persistence and durability to applications
- Storage services are classified into three types
  - Cloud storage
  - Persistence disk
  - > File store

# GOOGLE CLOUD STORAGE (GCS)

- It is the object storage service
- GCS is the unified object storage for variety of applications and it serves as the as the foundation of several services
- Objects are stored in containers called buckets.
- Applications can store and retrieve objects through APIs
- It provides some very interesting out-of-the-box features such as object versioning or fine-grain permissions (per object or bucket)
- Data can be stored in single region, dual-region and multi-region
- GCS can be scaled to from few bytes to exabytes of data
- GCS provides 99.9999999999 annual storage durability

# GOOGLE CLOUD STORAGE - STORAGE CLASS

There are 4 storage classes that are based on budget, availability and access frequency

High performance object storage

Backup & archival storage

#### Standard

- High Frequency access
- Most common storage class used by developers

## Nearline

- Not so frequent access
- Fast & highly durable storage for data access less than once a month

## Coldline

- Low frequency access
- Fast & highly durable storage for data access less than once a quarter

### Archive

- Lowest frequency access
- Designed for cost effective, long term preservation of data access less than once a year

Low Retrieval cost High

High

Storage cost

Low