Google Cloud Storage [GCS]

There are various types of storages available in GCP

- 1. Object Storage
 - a. Cloud Storage
- 2. Instance Storage
 - a. Persistent Disks
- 3. Database Storage
 - a. SQL
 - b. NoSQL
 - c. Analytic

GCS:

This is object storage which is best suited for

- a. Structured
- b. Unstructured
- c. Archived data
- d. Storing Intermediate results

It is having Global access, web access

Terminology/Organization:

- Global namespace This should be unique across GCP, as it is accessed by url
- Buckets We can have multiple buckets
- Folders We can create Folders inside buckets
- Objects we can create Objects inside folder or Buckets

Storage Classes:

Based on the utilization /frequency we can choose storage classes

- Standard if we use of frequent basis
- Near line Used monthly once
- Cold line Used yearly once
- Archive More than an year or don't use at all

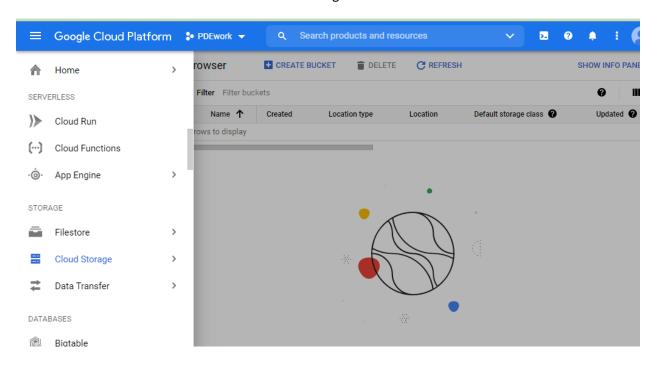
Redundancy/Regions:

- Region
- Dual Region
- Multiple Regions

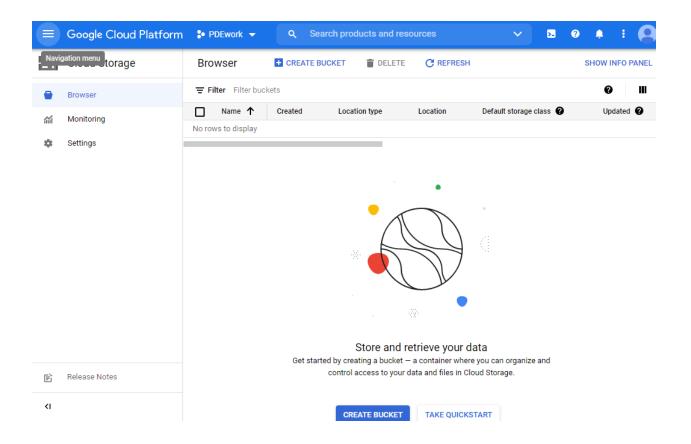
Creating Bucket:

Creating from Console:

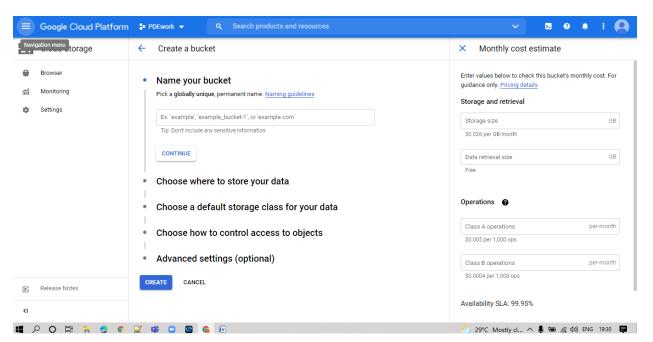
Go to GCP console \rightarrow Left Panel \rightarrow select Cloud Storage

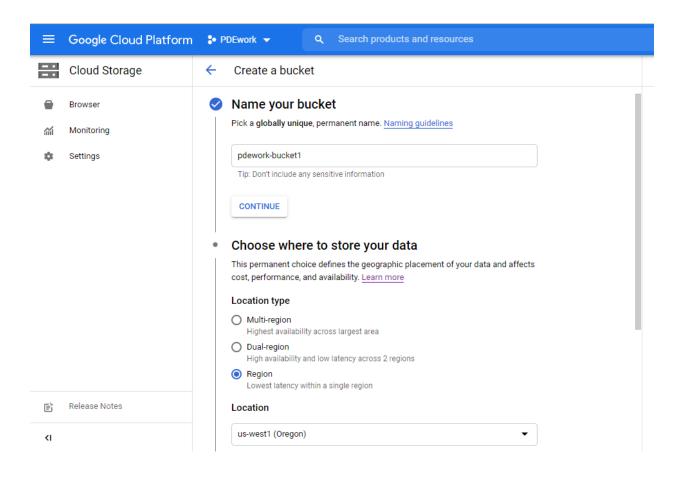


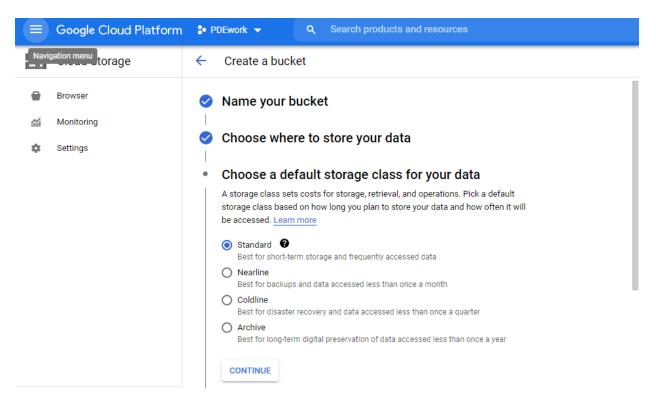
This will redirect to below page

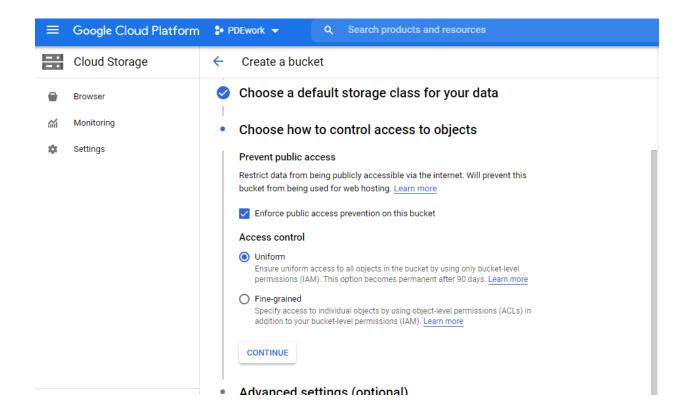


Select create Bucket and choose options accordingly



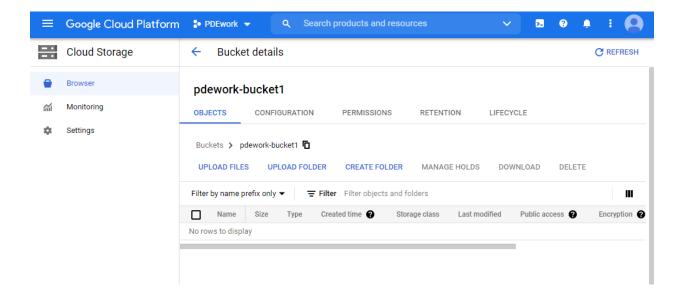


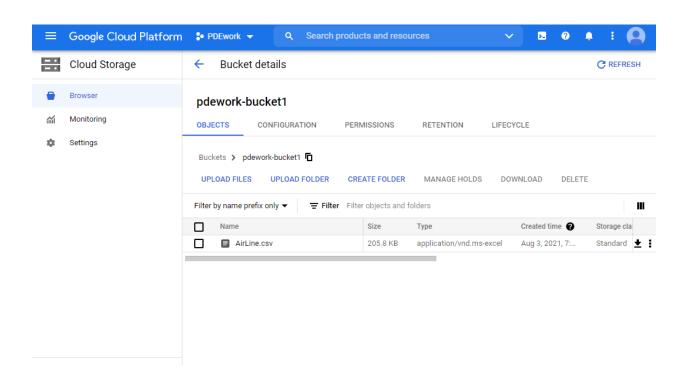


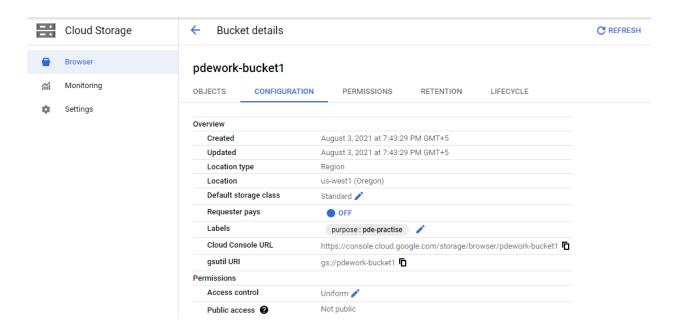


We have multiple options to load data

Upload files: Click on Upload files → browse file

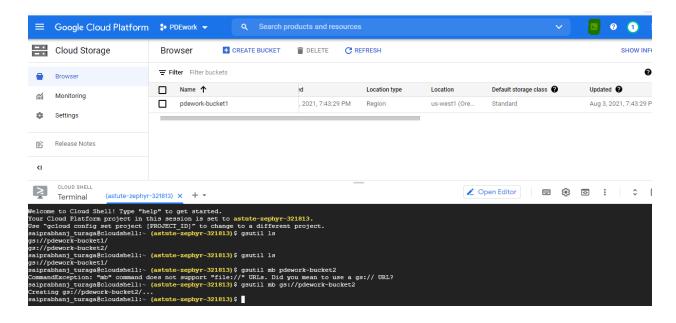






Creating bucket from cloud terminal

Go to Cloud terminal



Command:

gsutil Is → This will display existing buckets

gsutil mb gs://<BUCKET_NAME> → This will create bucket

