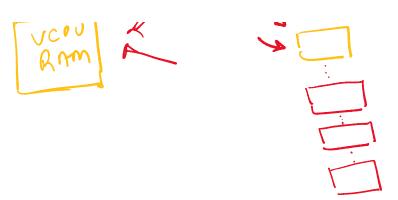
# **TOPICS COVERED**

- 1. Storage and Database Services
- 2. Cloud Storage
- 3. Cloud Filestore
- 4. Cloud SQL
- 5. Cloud Spanner
- 6. Cloud Firestore
- 7. Cloud Bigtable
- 8. Cloud Memorystore
- 9. Decision Chart
  - You must have seen a website with pics/videos
    - o Where are they hosted?

We have a backend always to store these pics/images and data which then later is fetched on to your app or website.

edia serving backend  CMS, ecommerce   CMS, ecommerce   CMS   ecommerce   DB is Global.   CMS   gaming servers   CMS   Global   CMS   CMS	Object Storage	File	Relational DB		Non-relational DB		Data Warehouse
AWS - S3 bucket used on a specific network.	GCS - Google Cloud Storage Images/videos/m edia serving backend Azure - Blob	Filestore  Network Attached Storage  For workoads which are latency sensitive and most of the time need to be	Cloud SQL  Web frameworks - CMS, ecommerce	Cloud Spanner  If you want horizontal scalability and make sure the	Firestore  Mobile/web app - user profile, gaming	Cloud Bigtable Heavy read	Big Query  - Analytics -Dashboards created for

Relational DB			F	======================================	reka
Course Name	<u>Days</u>				
Azure architect	30	\$\$\$	\ \ \ =		
Azure administrator	20	\$\$	<i>y</i> -		
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## **GCS- Google Cloud Storage**

- Wide range storage and retrieval of any amount of data at any time.
- Website content
- Disaster recovery
- Anything that you store in GCS needs to be in a bucket.
- This bucket has to be a globally unique name.

## **GCS Storage Class**

Standard	Nearline	Coldline	Archive
'Hot' data	Infrequently accessed data	Once a quarter data.	Data archiving, online backup
There is NO minimum storage duration	Minimum storage duration is 30 days	90 days	365 days
There is NO retrieval cost	\$0.01/GB	\$0.02/GB	\$0.05/GB

INTERNET A BULKET POLICY

SULKET & BULKET POLICY

POLICY OBJECT

FINE GRAINED

With most of the services gcloud command line works.

But for GCS - gsutil

Command - gsutil mb -c standard -l us-east1 gs://arjun12345test

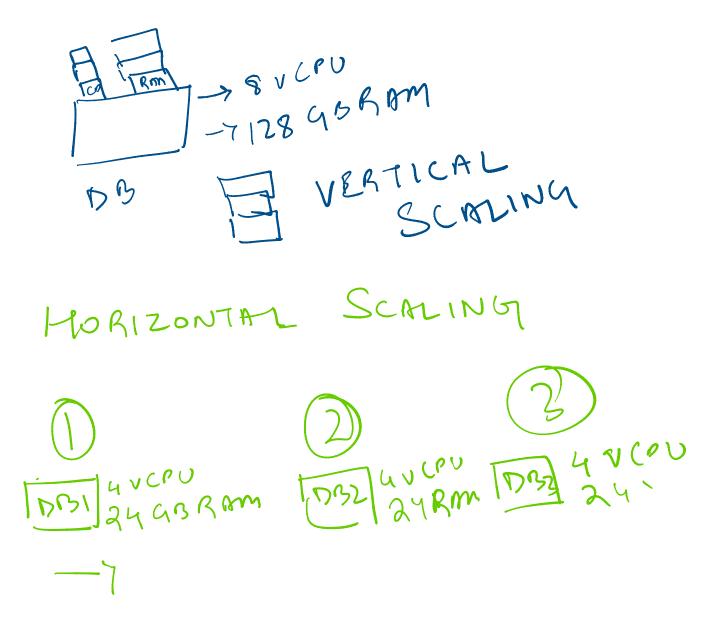
Cloud Shell SDK - https://cloud.google.com/sdk?hl=en

#### **Data Import Services**

- 1. STS Storage Transfer Service Hundreds of GB of data.
- 2. Transfer Appliance Actually hardware device.

## **Cloud SQL**

- Fully managed service - MySQL, PostgresSQL and Microsoft SQL



## Demo GCP +CSQL

- 1. Create VM with public IP to act as webserver. \
- 2. GCS bucket created and place a image into it.
- 3. Create a SQL instance and configure it.
- 4. Basic website code Connect it to the CSQL.
- 5. Use the image on GCS in my website.



```
apt-get update
apt-get install apache2 php php-mysql -y
```

service apache2 restart

Banner Link - gs://cloud-training/gcpfci/my-excellent-blog.png

### **HTML Code**

```
<html>
<head><title>Welcome to my excellent blog</title></head>
<body>
<h1>Welcome to my excellent blog</h1>
<img src 'https://storage.googleapis.com/project-alpha12/my-excellent-blog.png'>
<?php
$dbserver = "146.148.42.132";
$dbuser = "blogdbuser";
$dbpassword = "Passw0rd";
 try {
  $conn = new PDO("mysql:host=$dbserver;dbname=mysql", $dbuser, $dbpassword);
  // set the PDO error mode to exception
  $conn->setAttribute(PD0::ATTR_ERRMODE, PD0::ERRMODE_EXCEPTION);
  echo "Connected successfully";
} catch(PDOException $e) {
  echo "Database connection failed:: " . $e->getMessage();
?>
</body></html>
```