Google Cloud Workshop Starter

Pre-Workshop Checklist for Students

1. Google Cloud Setup

- Create a **Google Cloud account** (with free credits) using your personal e-mail ID at https://cloud.google.com

- Enable **billing** (free credits or existing billing account)

- For billing you can use the UPI option, which will prompt you to set up an autopay of, Rs 15000 initially. (On payment, an amount of Rs. 2 will be deducted to verify the UPI.
- Disable the autopay option after the billing is enabled with the $300 free credits

2. Install Required Tools on Local Machine

Tool	Link
Python 3.8+	https://www.python.org/downloads/
Git	https://git-scm.com/
Google Cloud SDK (gcloud)	https://cloud.google.com/sdk/docs/install
Cloud SQL Auth Proxy	https://cloud.google.com/sql/docs/mysql/sql-proxy#install
Postman/ThunderClient extension	https://www.postman.com/downloads
Git Repo for files (will be updated after session)	https://github.com/Adarsh7448/cloud-gcp.git

Workshop Overview

Day 1

1. Introduction to Cloud Computing
2. Primary Players
3. Introduction to GCP
4. Google Cloud Products
5. Methods of Interaction - Cloud Console/Cloud shell/cloud SDK
6. My First Project
7. Introduction to Cloud Storage
8. Hands on with Cloud storage with gcloud SDK
9. Scaling Up
10. Day 1 - Assignment

Recording Link - Day 1
https://drive.google.com/file/d/1tMUEkZOvhhJ4lDBPdMV6YWErakPAJs0c/view?usp=sharing

Day 2

1. Introduction to Cloud SQL
2. Enable Google Cloud SQL API
3. MySQL Instance
4. Creating Database

5. Scaling Up
6. Day 2 - Assignment

Recording Link - Day 2
https://drive.google.com/file/d/1-abh_S0Ig6xL-VLYZRD32cyp7o_wUu_G/view?usp=sharing

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Day 3

1. Introduction to Cloud Build
2. working
3. What is Artifact Registry?
4. Usage
5. Introduction to Cloud Run
6. Other deployment approaches
7. Bringing it all together
8. Deploying a flask app using Cloud storage, Cloud SQL, Cloud Build and Cloud Run
9. Quiz

Recording Link - Day 3
https://drive.google.com/file/d/1JyFYCJDCxEyX9se4rFFrrPg8B6Vnee-H/view?usp=sharing

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