

# 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>

Google Cloud Overview Solutions Products Pricing Resources Contact Us Search Docs Support Console A Start free

Free to sign up. Free to use. Free monthly usage.

Get started for free Contact sales

Three ways to get started for free

- \$300 in free credit for new customers**  
New customers get **\$300 in free credit** to try Google Cloud products and build a proof of concept. You won't be charged until you activate your full paid account.
- Start deploying pre-built solutions free**  
Apply your \$300 free credit toward deploying Google-recommended [pre-built solutions](#), such as a [dynamic website](#), [load-balanced VM](#), [three tier web app](#), and [more](#).
- 20+ products with free tier**  
Get free usage of [AI APIs](#), [Compute Engine](#), [BigQuery](#), and other popular products [up to monthly limits](#)—not charged against your \$300 free credit.

Try Google Cloud for free

**Step 1 of 2 Account Information**

A Adarsh Narendra Switch account

Country  
India

By using this application, you agree to the [Google Cloud Platform](#), [Supplemental Free Trial](#), and [any applicable services and APIs Terms of Service](#).

Agree & continue

**Access to all Google Cloud products**  
Get everything you need to build and run your apps, websites and services, including Firebase and the Google Maps API.

**\$300 in free credit**  
Try Google Cloud with \$300 in credit to spend over the next 90 days.

**No automatic charges**  
You only start paying if you decide to activate a full, pay-as-you-go account or choose to prepay. You'll keep any remaining free credit.

Create a payments profile

Only **Organization** profiles can have multiple users. If you select an **Individual** profile, you agree that use of your profile is for your trade, business, craft, or profession. In some countries, this selection affects your tax options. Your profile type can't be changed after signing up. [Learn more about payments profile](#)

Profile type  
Individual

Legal name  
Adarsh Narendra

Street address  
Street address required

Apt, suite, etc. (optional)

City  
City required

Pin code  
Pin code required

State  
Maharashtra

Cancel Create

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

 Try Google Cloud for free

## Step 2 of 2 Verify Your Identity

We use payment information to verify your identity, which prevents abuse of our services by spammers and bots. **You won't be charged** unless you activate your full, pay-as-you-go account or choose to prepay.

Payments profile

Adarsh Madre  
Individual • India • ID: 7445-2456-0472

Your payment information is saved in a payments profile, which is associated with your Google Account and shared across Google services. [Learn more about payments profile](#)

Payment method

Pay by UPI QR code

+

Start free

## Access to all Google Cloud products

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## No automatic charges

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

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## Workshop Overview

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### 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
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### 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

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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
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