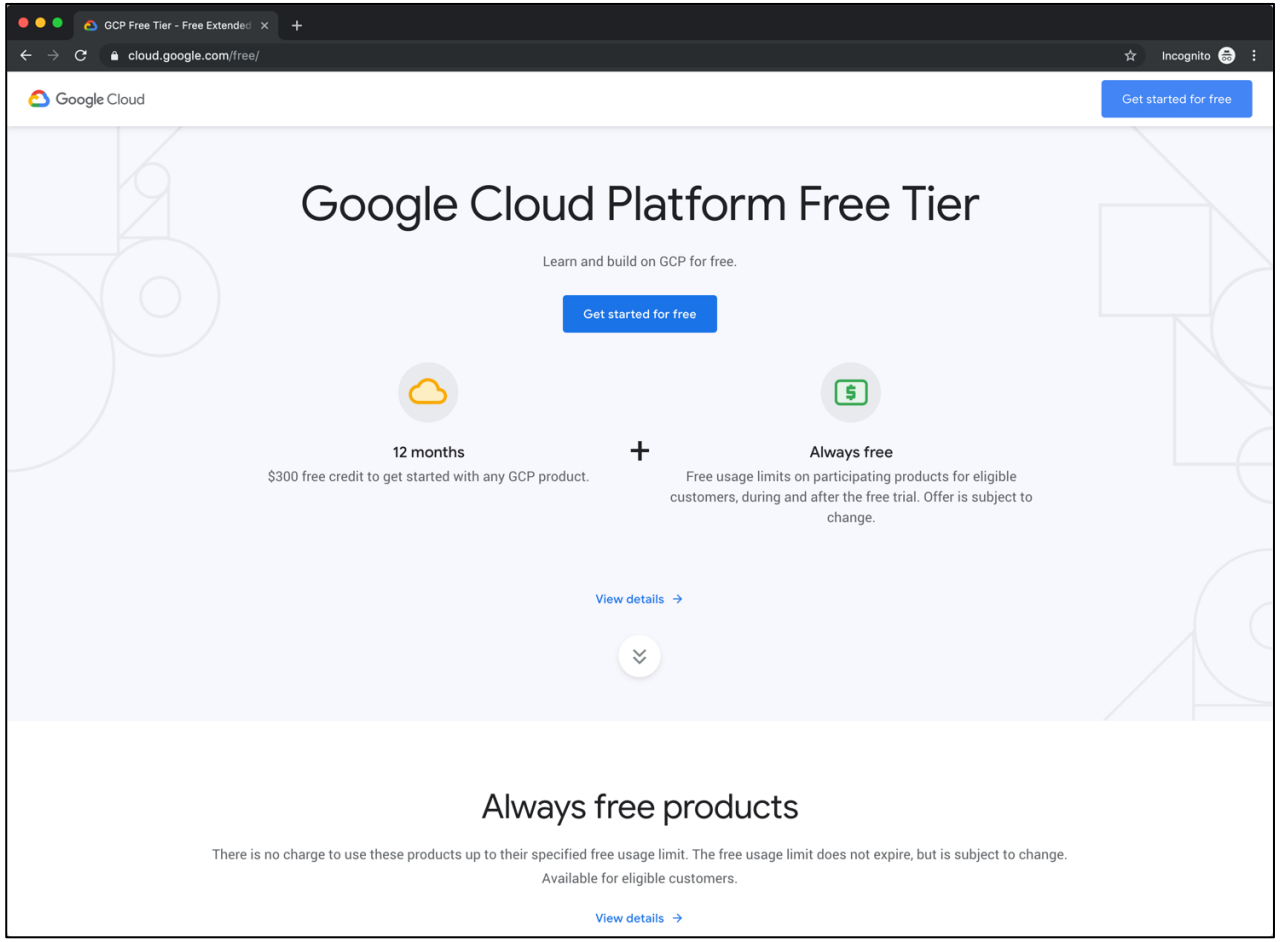
Getting Started with Google Cloud Platform

Learning Objectives

- Signing up with GCP
- Resource hierarchy
- Interacting with GCP Resources

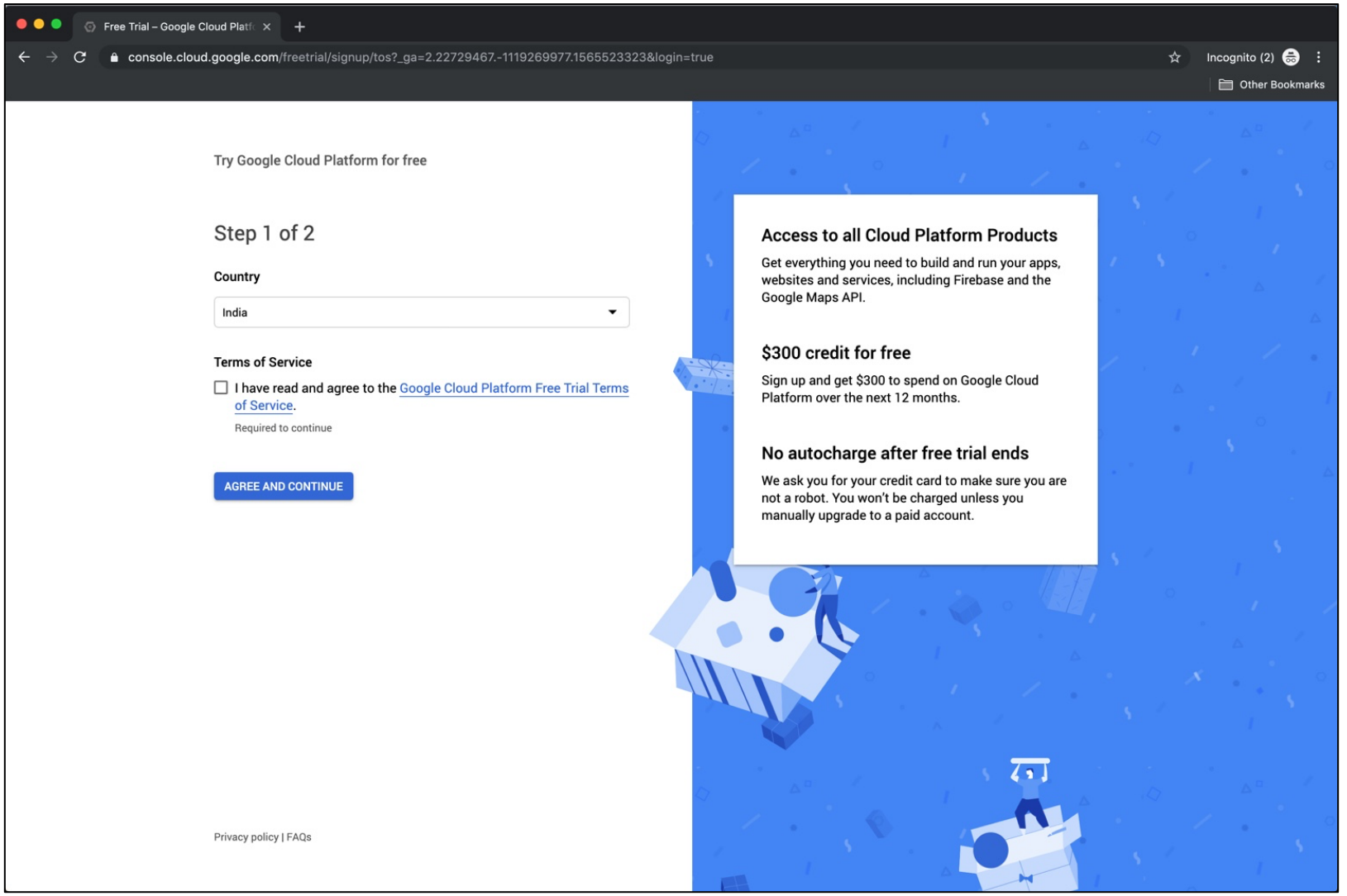
Signing up with Google Cloud Platform

GCP Free Tier

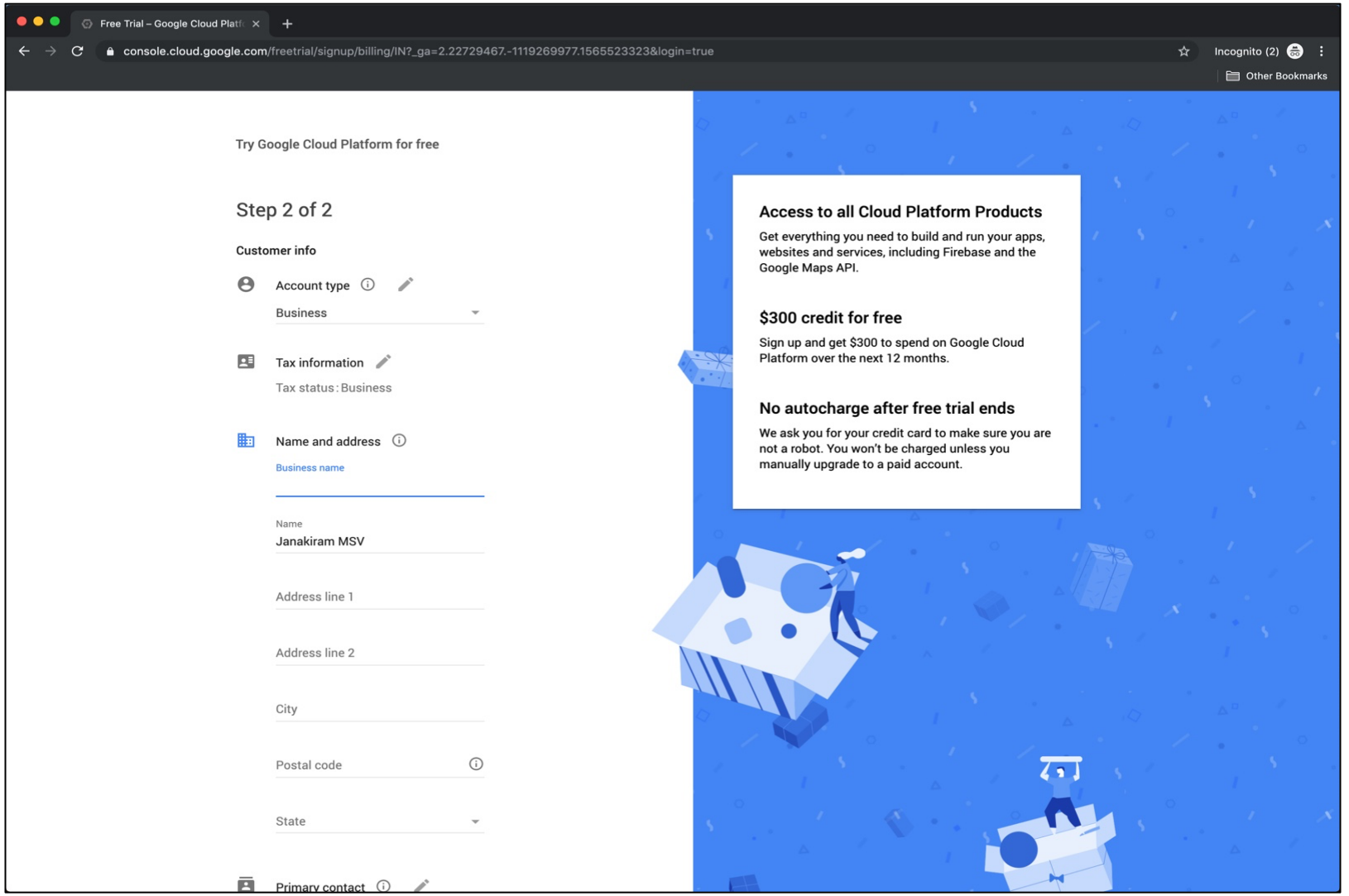


Resource link: https://cloud.google.com/free

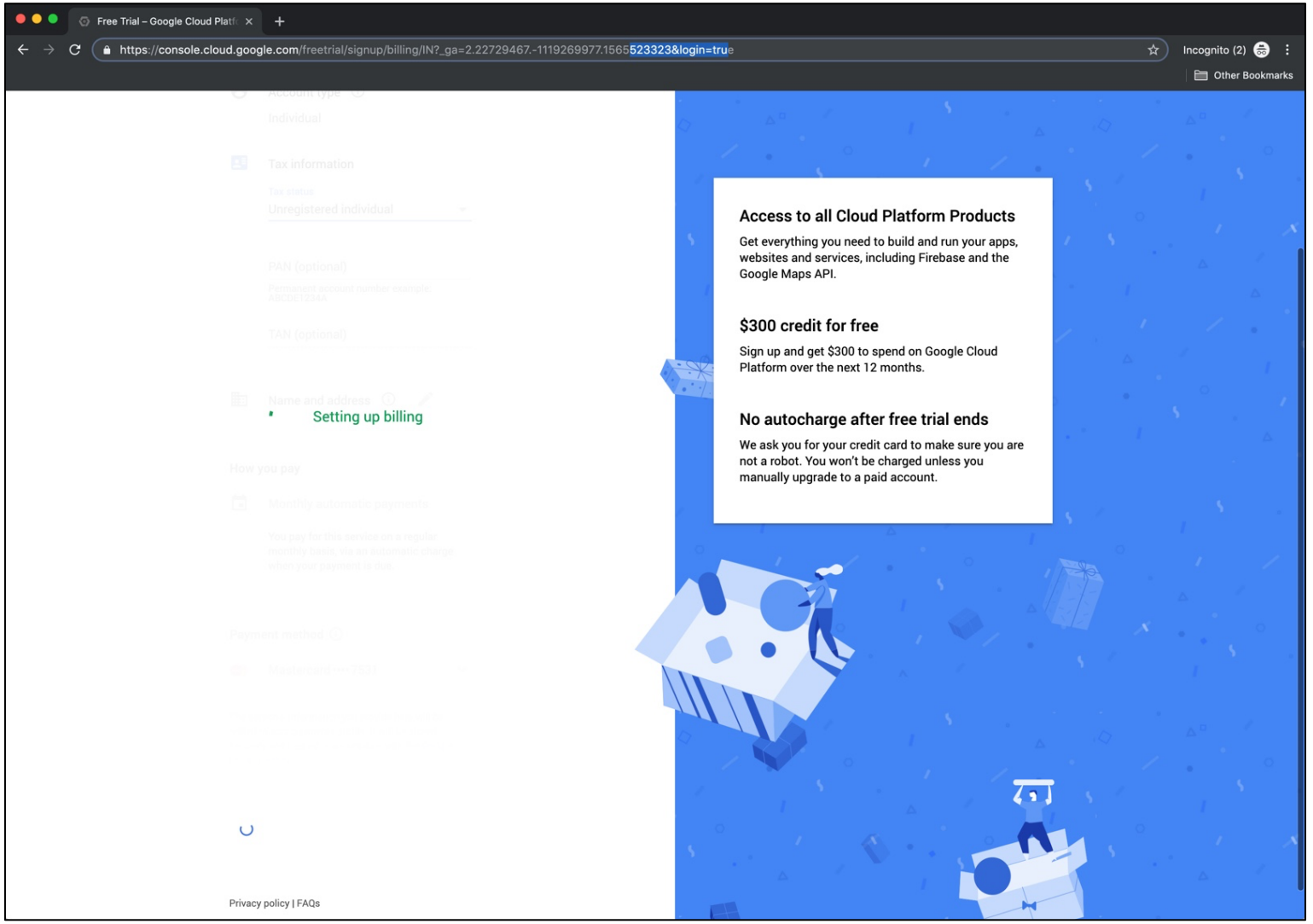
Signing up with GCP



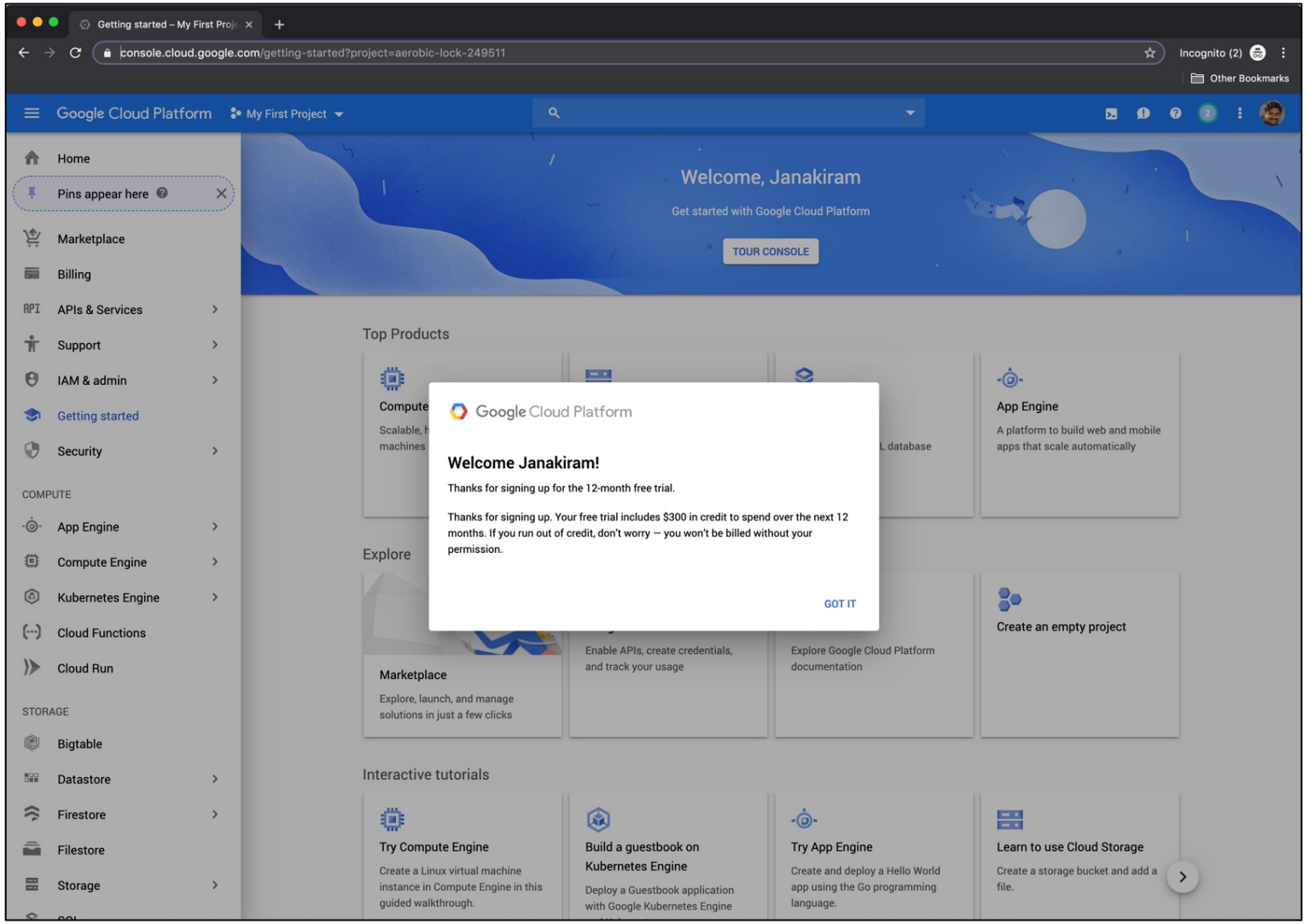
Signing up with GCP



Signing up with GCP



Signing up with GCP

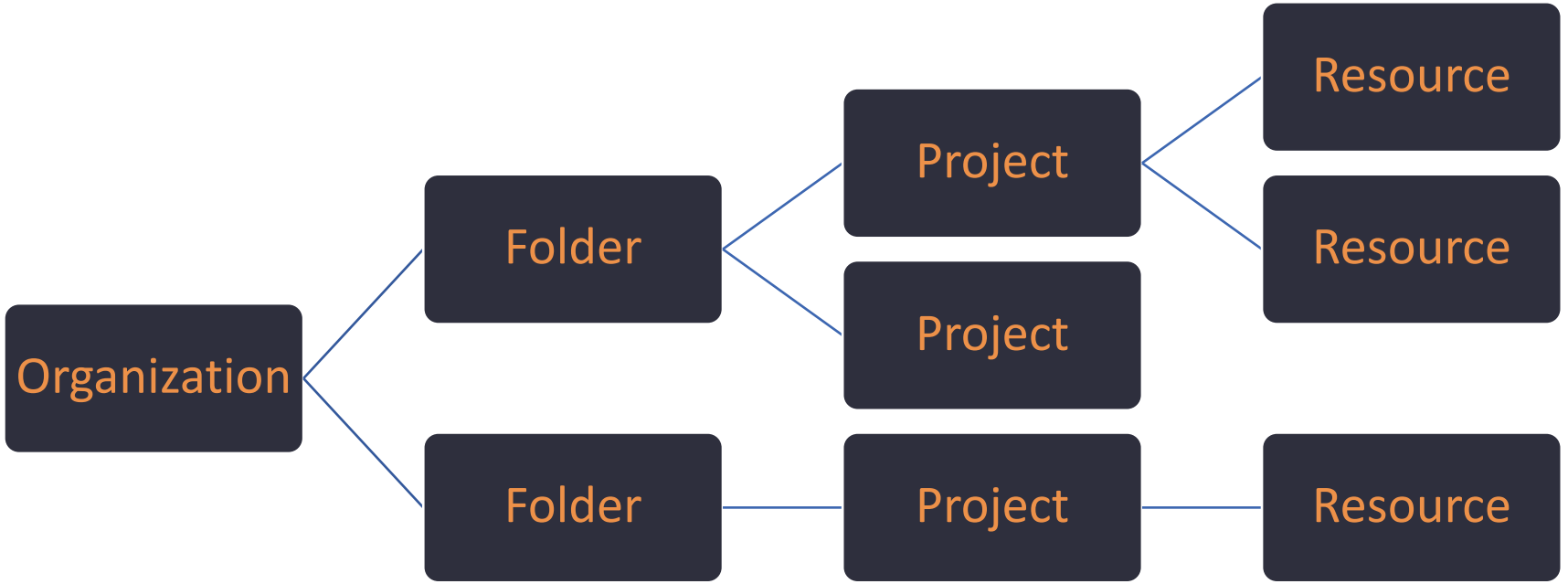


Understanding Google Cloud Platform Resources

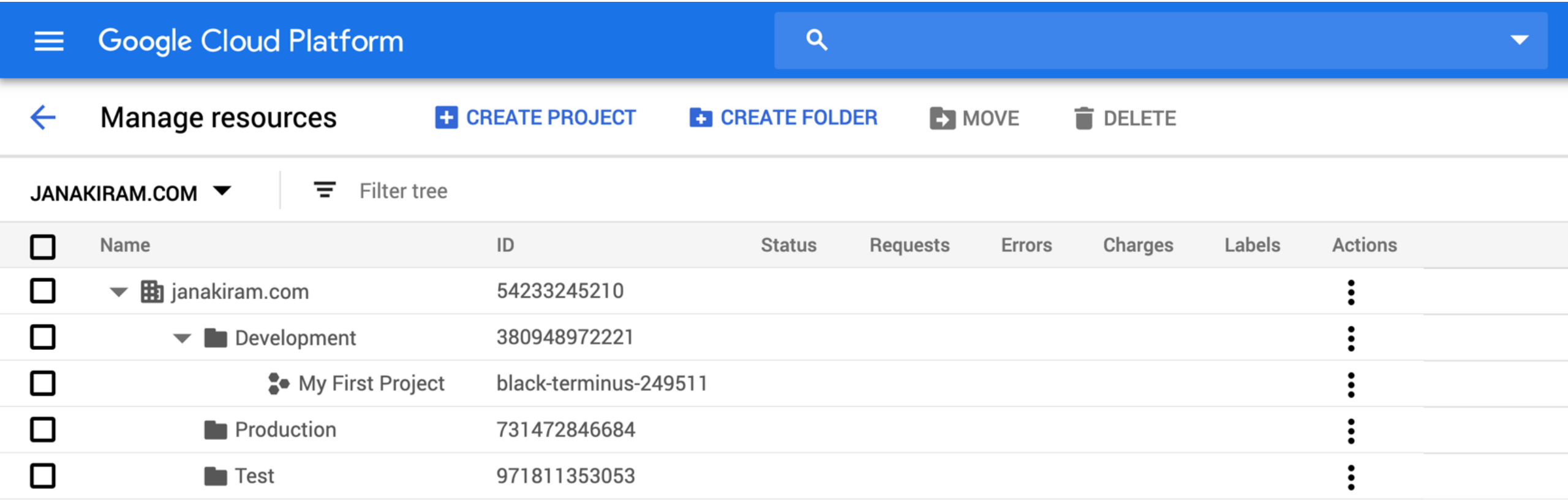
Understanding GCP Resources

- Resources are the fundamental components of GCP
  - GCE VMs
  - GAE instances
  - Cloud Pub/Sub topics
  - Cloud Storage buckets
  - ….
- Resources belong to a project
- Projects may be organized into a folders
- Project represents a billable unit
- Folders provide logical grouping of projects
- Folders belong to one and only one organization
- An organization is the top level entity in GCP hierarchy

Understanding GCP Resources



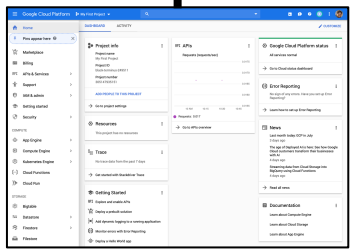
Understanding GCP Resources



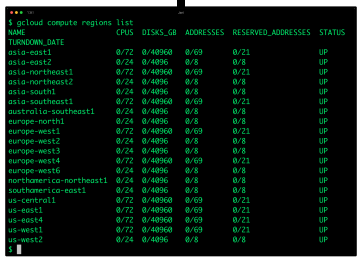
Interacting with Google Cloud Platform

Interacting with GCP

Google Cloud



Web Console



Cloud Shell
Cloud SDK

Mobile App

REST API

Accessing GCP Shell

- An interactive shell environment for GCP
- Accessible from any web browser
- Comes preloaded with an IDE, `gcloud` SDK and other tools
- Based on a GCE VM
- Provides 5GB of persistence disk storage
- In-built web preview functionality

Google Cloud Platform Fundamentals

Lab Guide for Google Cloud Shell

```
# Run the below commands in Cloud Shell

gcloud compute region list
```

Summary

- GCP offers a $300 credit along with a free tier
- Organization, folders, projects, resources are a part of GCP hierarchy
- GCP is accessed through console, Cloud Shell, SDK, and a mobile app
- GCP Cloud Shell is a powerful environment available within the browser