01 GCP Resource Hierarchy - KirkYagami🧑‍💻🕵️

Google Cloud Resource Hierarchy

Structure

- **TOP LEVEL:** All resources have one parent each, except the highest resource (Organization)
- **LOWEST LEVEL:** Cloud Resources (Compute Engine, Cloud Run, Cloud Storage)
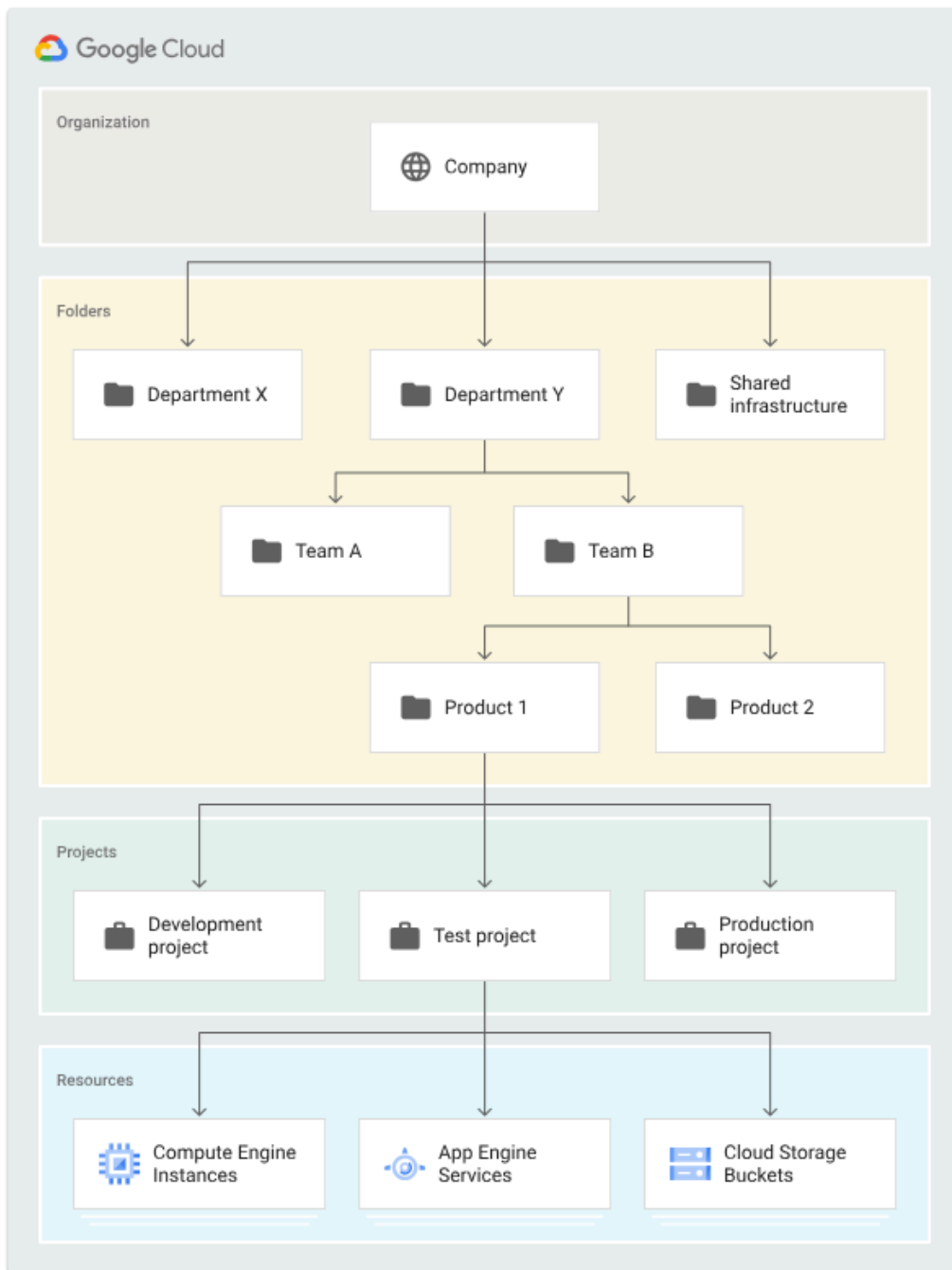
Organization

- Google Workspace or Cloud Identity account can create ORGANIZATION as the root node

Folder Resources

- Optional grouping mechanism between organization resources and project resources
- An organization resource is required as a prerequisite to use folders

Hierarchy Overview

1. Organization (Top Level)
2. Folders (Optional)
3. Projects
4. Resources (Lowest Level)

For Free trial, free tier users will have NO ORGANIZATION as root node with projects under it.
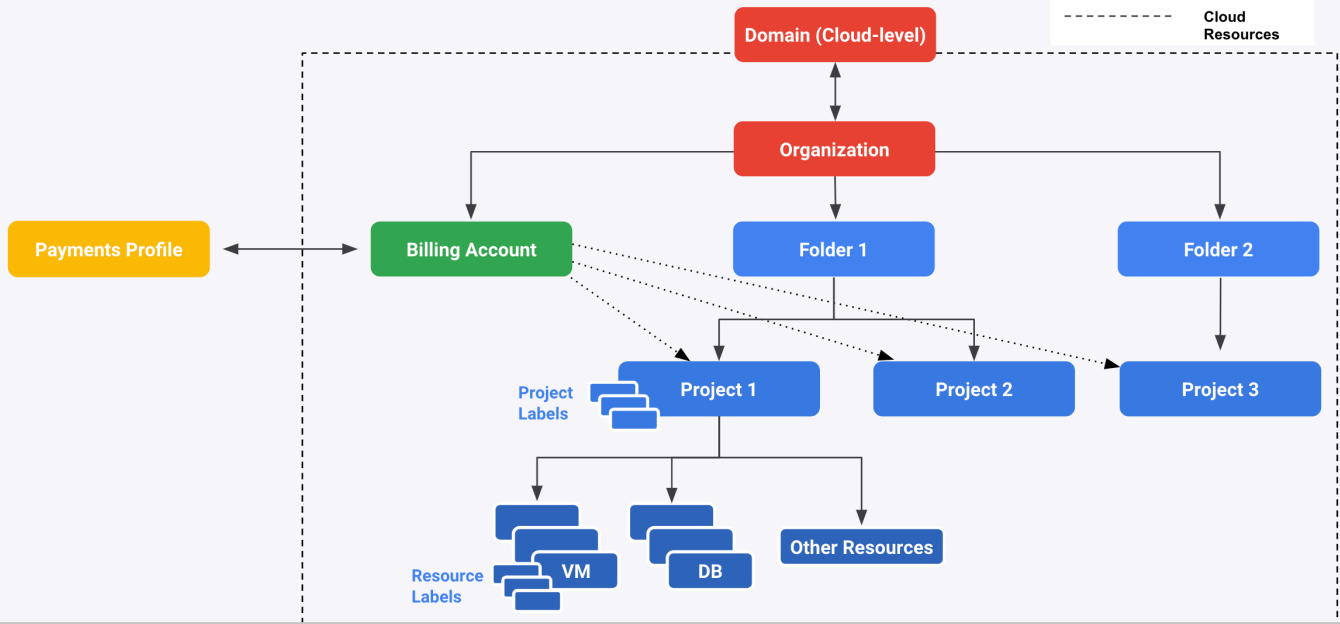
- We can create new projects, and under the projects we can create Cloud Resources:
  - Cloud Storage buckets
  - Compute Engine VM Instances
  - Cloud Run services
  - And many more

You can create a Billing Account per Organization or per project.

Resource Hierarchy

Domain (Cloud-level)

Organization

Payments Profile ↔ **Billing Account**

Folder 1

Folder 2

Project Labels

Project 1

Project 2

Project 3

Resource Labels

VM

DB

Other Resources

Key

———	Owns
··········	Pays for
- - - - -	Cloud Resources

`Go To IAM -> Manage Resources`